

Environmental

Protection

California Regional Water Quality Control Board

Santa Ana Region

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April 22, 2004

Peter A. Nyquist Weston Benshoof Rochefort Rubalcava MacCuish LLP 333 South Hope Street, Sixteenth Floor Los Angeles, CA 90071

Darren M. Salvin Parker Milliken Clark O'Hara & Samuelian LLP 333 South Hope Street, Twenty-Seventh Floor Los Angeles, CA 90071

Richard A. Dongell Dongell Lawrence Finney LLP 707 Wilshire Blvd., Twenty-Seventh Floor Los Angeles, CA 90017

TRANSMITTAL OF REVISED DRAFT CLEANUP AND ABATEMENT ORDER NO. R8-2004-0042 AND STAFF REPORT FOR PYRO SPECTACULARS, INC., THOMAS O. PETERS REVOCABLE TRUST AND WHITTAKER CORPORATION

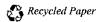
Dear Messrs. Nyquist, Salvin and Dongell:

Enclosed are the Staff Report and revised draft Cleanup and Abatement Order No. R8-2004-0042 for the investigation and cleanup of perchlorate at the five-acre parcel located at 2298 West Stonehurst Drive, Rialto, California. For your convenience, the revisions to the draft Order are shown in strikeout/underline format.

A hearing is scheduled in this matter before the Regional Board on Friday, April 30, 2004. The hearing will be conducted during the Board's regular meeting, which will commence at 9:00 A.M. at the Cucamonga Valley Water District, 10440 Ashford Street, Rancho Cucamonga. The Board will consider whether to adopt, modify or reject the proposed Cleanup and Abatement Order. You will have the opportunity to make a presentation before the Board, in accordance with the protocols defined in the Hearing Notice of April 16, 2004.

By copy of this letter, Interested Parties are advised that the draft Cleanup and Abatement Order, Staff Report and exhibits will be available on the Regional Board's website: http://www.swrcb.ca.gov/rwqcb8.

California Environmental Protection Agency



If you have any questions, please contact me at (909) 782-3286 or Ann Sturdivant at (909) 782-4904, or you may call Catherine Ehrenfeld, Staff Services Analyst, at (909) 782-3285.

Sincerely,

Kurt V. Berchtold

Assistant Executive Officer

KtV. Bltl

Enclosures:

- 1. Revised Draft Cleanup and Abatement Order No. R8-2004-0042
- 2. Staff Report and exhibits
- 3. Interested Parties Mailing List

cc w/enclosures:

Regional Board Jorge Leon, OCC – SWRCB

cc w/out enclosures:

Interested Parties (see mailing list)

California Regional Water Quality Control Board Santa Ana Region

Cleanup and Abatement Order No. R8-2004-0042

Pyro Spectaculars, Inc.,

Mr. Thomas O. Peters Revocable Must

And

Whittaker Corporation

Five-acre parcel located at 2298 West Stonehurst Drive, City of Rialto, San Bernardino Sounty

The California Regional Water Quality Control Board, Santa Ana Region (hereinafter Regional Board), finds that

- 1. The Mr. Thomas O. Peters Revecable Trust currently owns property in Section 28, Township 1 North, Range 5 West, San Bernardino Base and Meridian, in the County of San Bernardino, State of California. Mr. The Thomas O. Peters Revecable Trust property consists of approximately five acres ("the site property"), on which about 25 buildings and storage units are situated.
- 2. Starting in 193955, Whittaker Corporation, the former Trojan Fireworks Company, and actro Pyrotechnics (ewned and operated by a division of Pyro Speciaculars, Inc.) or their legal predecessors have conducted manufacturing operations on portions of the siteproperty. The manufacturing activities have been associated with onsite waste disposal practices. The siteproperty overlies the Rialto Groundwater Subbasin.
- Aerial photographs indicate that the three parcels making up the 5-acre steproperty were was developed in several phases, beginning as early as 196955. Evidence indicates that the AMEX Products Division of Tasker Industries (AMEX Products) owned approximately 1.22.5 acres of the siteproperty in 196955. The AMEX Products facility address was 2298 West Stonehurst Drive, and included a general office, and 10 additional buildings. AMEX also operated a test range on 15 acres, adjacent to the AMEX property2.5 acres, at Alder Avenue. AMEX Products designed, tested and fabricated military and commercial pyrotechnic and explosive devices on this portion of the propertyat 2298 West Stonehurst Drive. Perchlorate is known to have been a component of AMEX's products. In or about 1972, Tasker Industries merged into Whittaker Corporation. Because this transaction was a corporate merger, Whittaker Corporation assumed the liabilities of Tasker Industries. Records indicate that

Whittaker Corporation thereafter became the owner of the 2.51.2 acres at 2298 West Stonehurst Drive until it sold the property to Mr. PetersRobert J. Kennard, who was associated with the Trojan Fireworks Company, in er about 1974. Mr. Thomas O. Peters then purchased the 1.2 acres and additional 2.5 acres of adjoining property, creating the approximately 5-acre site property. The 5-acre site is currently owned by the Thomas O. Peters Revocable Trust.

- 4. Trojan Fireworks Company, a wholly owned subsidiary of Astro
 Pyrotechnics, began operating at the 5-acre site in or about 1973. Trojan
 Fireworks Company manufactured commercial fireworks through 1988 at
 this location. Perchlorate salts are known ingredients of common
 fireworks. Astro Pyrotechnics then purchased the assets of Trojan
 Fireworks Company, and Trojan Fireworks Company was dissolved.
- 5. IOn or about March 24, 1988, Pyro Spectaculars, Inc. purchased the manufacturing and display divisions of Trojan Fireworks Company, commonly known as Astro Pyrotechnics. assets of Astro Pyrotechnics. Astro Pyrotechnics has operated as a division of Pyro Spectaculars, Inc. since that time. Astro Pyrotechnics manufactures theatrical (1.4G) fireworks and pyrotechnic articles at the siteproperty. The fireworks are shipped to off-site, licensed professional customers. The Astro Pyrotechnics facility receives raw materials (including chemicals and paper goods), and assembles various types of fireworks inside small work buildings.
- 6. At the current-day Astro Pyrotechnics facility, raw and laboratory grade chemicals are stored in bulk in eight of the on-site buildings. Various other buildings are used for the manufacture and storage of fireworks products. Four of the work buildings had adjacent concrete pads that were installed in or about <u>january.20032</u> and were used until mid-2003 for collecting wastewater that was generated during the fireworks manufacturing process. This practice was discontinued at the direction of Regional Board staff. Prior to installation of the concrete pads, the wastes were discharged to small earthen containment basins that were lined with plastic.
- 7. The wastewater generated during the fireworks manufacturing process at Astro Pyrotechnics is a highly saline waste containing potassium nitrate, potassium perchlorate, and other perchlorate salts. Perchlorate salts are highly soluble and dissociate in water to form perchlorate ions. There are currently no state or federal drinking water standards for perchlorate. However, on March 11, 2004, the California Department of Health Services (DHS) established a revised drinking water Action Level (AL) for perchlorate of 6 parts per billion (ppb). An AL is a temporary safe drinking water level that is based on available studies that have been performed.

- 8. Perchlorate is currently present in the Rialto, Colton, Chino I and Chino II Groundwater Subbasins. The West Valley Water District, the Fontana Water Company, and the Cities of Rialto and Colton had limited or ceased the use of 20 municipal water supply wells that contained perchlorate. Wellhead treatment systems have been installed on eight of these wells, and these eight wells have been returned to service. However, the remaining 12 wells continue to be unused or are used on a limited basis.
- 9. Municipal water supply wells in the Rialto, Celton, Chino I and Chino II Groundwater Subbasins have been, or are likely to be, affected by the perchlorate pollution in these basins. Regional Board staff has identified numerous parties, and continues in its efforts to identify all parties that may have discharged perchlorate in these basins.
- 10. Perchlorate contamination was first detected in groundwater in the Rialto and Chino Groundwater Subbasins in 1997. At that time, the DHS AL for perchlorate in drinking water was 18 parts per billion (ppb). Two wells contained perchlorate exceeding 18 ppb and were shut down. In January 2002, the DHS lowered the AL to 4 ppb. In response to the reduced AL for perchlorate, the local water purveyors in the Rialto and Chino Groundwater Subbasins restricted or eliminated the use of additional production wells with perchlorate concentrations that exceeded 4 ppb. Between 1997 and the present, various perchlorate dischargers, including Astro Pyrotechnics, have been identified.
- 11. On November 6, 2002, pursuant to California Water Code (CWC) Section 13267, the Executive Officer directed Pyro Spectaculars, Inc. to investigate the 5-acre Astro Pyrotechnics facility.
- 12. On December 9, 2002, Pyro Spectaculars, Inc. submitted a work plan was submitted for investigation of soil adjacent to the concrete pads) that were used for collection of liquid waste at Astro Pyrotechnics. The proposed fieldwork consisted of five exploratory trench excavations to collect soil samples for analysis of perchlorate. On February 6, 2003, Regional Board staff visited the Astro Pyrotechnics facility and inspected the work buildings, including those used for the manufacture of fireworks. Regional Board staff observed that several of the concrete pads contained wastewater and sludge. Concrete is not an effective, permanent barrier to infiltration of liquid, and is therefore not an acceptable waste containment liner. In addition, the pads lacked splash walls, and did not have the capacity necessary to prevent overflow and runoff of waste from a significant storm event.

- 13. On March 3, 2003, the Executive Officer conditionally approved the work plan for the investigation of the Astro Pyrotechnics facility. The Executive Officer's approval letter required that the work plan be revised to include the collection of soil samples from the areas immediately beneath the existing concrete pads, instead of from areas adjacent to the pads as proposed in the work plan. In addition, Pyro Spectaculars, Inc. was advised that the concrete pads were not acceptable storage facilities for waste and wastewater at the Astro Pyrotechnics facility and that it must cease the practice. The Executive Officer required the installation of permanent containment facilities, such as appropriately lined storage sumps or ponds, with adequate capacity, as well as secondary containment for the drums of chemical waste that were stored on-site.
- 14. In accordance with the investigation work plan approved by the Executive Officer, Pyro Spectaculars, Inc. was required to commence its field activities on July 21, 2003. Pyro Spectaculars, Inc. failed to commence the investigation by the specified date; therefore, the Executive Officer issued an administrative civil liability (ACL) complaint against Pyro Spectaculars, Inc., which has been resolved.
- 15. On November 6, 2003, Kleinfelder (the environmental consultant for Pyro Spectaculars, Inc.) excavated five exploratory trenches in the areas of investigation approved by the Executive Officer. The soil samples were analyzed for volatile organic compounds (VOCs), perchlorate, and electrical conductivity.
- 16. On December 15, 2003, Pyro Spectaculars, Inc. submitted a "Perchlorate Investigation Report" which summarized the results of Kleinfelder's soil investigations at the site. Perchlorate was found in 12 samples at the site. Samples collected at 1, 5, and 10-foot depths in four of the trenches contained perchlorate. Perchlorate concentrations ranged from 1.2 milligrams per kilogram (mg/kg) to 32 mg/kg. The highest perchlorate concentration of 32 mg/kg was detected at the 10-foot depth adjacent to the former location of one of the concrete waste disposal pads.
- 17. Based on the results of the soil investigations conducted by Pyro Spectaculars, Inc. at the site Astro Pyrotechnics facility, it is evident that perchlorate has been discharged to soil and likely to the underlying groundwater.
- 18. Based on the historical evidence of suspected perchlorate discharges at the <u>siteproperty</u>, and prior to Astro Pyrotechnics collecting soil samples at the property, the Executive Officer issued an Investigation Order to Mr. Thomas O. Peters, on the basis of <u>available records of</u> his ownership of the property, on July 18, 2003. Mr. Peters was ordered to submit a work plan by August 29, 2003 for conducting an investigation to define the

- lateral and vertical extent of perchlorate in soil and groundwater at the <u>site</u>property.
- 19. On December 18, 2003, an environmental consultant for Mr. Peters submitted a work plan for a limited perchlorate investigation at the site property. The proposed fieldwork for the site consisted of 11 exploratory trench excavations to collect soil samples for analysis of perchlorate. This work plan has not been approved by Board staff, and Nnone of the proposed work has been conducted by Mr. Peters.
- 20. Whittaker Corporation is the- corporate successor of AMEX Products and Tasker Industries by merger. Based on the use, storage, and disposal of explosives and their components by AMEX Products, Tasker Industries and Whittaker Corporation, the Executive Officer issued an Investigation Order to Whittaker Corporation on June 26, 2003. Whittaker Corporation was ordered to conduct a records investigation and submit a report by July 31, 2003 concerning suspected perchlorate discharges at its former Rialto facility.
- 21. On July 28, 2003, Whittaker Corporation submitted limited information pertaining to AMEX Products and its production activities at the <u>siteproperty</u> between 1969 and 1971.
- 22. Based on the information submitted on July 28, 2003, the Executive Officer issued a further Investigation Order to Whittaker Corporation on October 21, 2003. Whittaker Corporation was ordered to submit a work plan by December 16, 2003 for conducting an investigation to define the lateral and vertical extent of perchlorate in soil and groundwater in the vicinity of the siteproperty.
- 23. On January 13, 2004, Whittaker Corporation submitted a work plan for conducting further investigation activities to assess perchlorate at and in the vicinity of the siteproperty. This work plan has not been approved by Board staff, and none of the proposed work has been conducted by Whittaker CorporationNone of the proposed work has been conducted by Whittaker Corporation.
- 24. Based on the facts presented herein, the evidence referred to in the Staff Report and the Exhibits attached thereto, and the testimony presented at the hearing, the Board finds that Pyro Spectaculars, Inc., Mr. Thomas O. Peters and/or Thomas O. Peters Revocable Trust, and Whittaker Corporation have caused or permitted, or are causing or permitting, waste, i.e., perchlorate, to be discharged or deposited where it is, or probably will be, discharged into the waters of the state, specifically the Rialto Groundwater Subbasin, and have created, or threaten to create, a

condition of pollution or nuisance as defined in Water Code Section 13304.

- 25. The beneficial uses of the Rialto Groundwater Subbasin include:
 - a. Municipal and domestic supply,
 - b. Agricultural supply,
 - c. Industrial service supply, and
 - d. Industrial process supply.
- 26. CWC Section 13304 allows the Regional Board to recover reasonable expenses from responsible parties for overseeing cleanup and abatement activities. It is the Regional Board's intent to recover such costs for regulatory oversight work conducted in accordance with this order. Mr. Peters and Whittaker Corporation have already entered into cost recovery agreements with Regional Board staff. Pyro Spectaculars, Inc., has not entered into a cost recovery agreement with Regional Board staff, but a portion of staff's past costs has been recovered from Pyro Spectaculars, Inc. pursuant to resolution of the ACL complaint failed to respond to two requests from Regional Board staff for reimbursement of the Regional Board's costs.
- 27. This enforcement action is being taken by a regulatory agency to enforce a water quality law. Such action is exempt from the provisions of the California Environmental Quality Act (Public Resources Code, Section 21000, et seq.) in accordance with Section 15321, Article 19, Division 3, Title 14, California Code of Regulations.
- 28. Additional investigation is necessary to define the vertical and lateral extent of the perchlorate that is discharging, has been discharged, or threatens to be discharged from the <u>siteproperty</u> located at 2298 West Stonehurst Drive, Rialto.
- 29. It is appropriate to order Pyro Spectaculars, Inc., Mr. Thomas O. Peters Revocable Trust, and Whittaker Corporation jointly and severally to clean up and abate the effects of the discharge of perchlorate at the siteproperty.
- 30. A similar order may be issued at a later date to former tenants or former owners of other associated or adjacent properties, if Regional Board staff obtains additional information indicating that other specific tenants or owners have also discharged perchlorate that is present in the soil or groundwater.
- 31. Pyro Spectaculars, Inc. has proposed to form the Rialto Environmental Assessment Partnership (REAP), in lieu of conducting the investigation

and cleanup activities that would be required at the site by this Order. The peroposed partnership would sponsor a demonstration project for removal of perchlorate from the soil and groundwater in the vicinity of the site. If the REAP proposal obtains successful sponsorship from the local water purveyors, agencies and municipalities, and is determined by the Executive Officer to be technically feasible, the Board will consider revising or amending the Order as necessary to allow future implementation of the REAP.

IT IS HEREBY ORDERED THAT, pursuant to Section 13304, Article 1, Chapter 5, Division 7, of the California Water Code, Pyro Spectaculars, Inc., Whittaker Corporation, and Mr. the Thomas O. Peters Revocable Trust jointly and severally shall cleanup and abate the effects of the discharge of waste at the property located at 2298 West Stonehurst Drive, Rialto, as follows:

- Upon approval by the Executive Officer, implement the work plans submitted in response to the Executive Officer's Investigation Orders, or submit an alternate work plan if requested to do so by the Executive Officer. The work plans shall be implemented in accordance with time schedules approved by the Executive Officer.
- 2. Prepare and implement additional work plans that the Executive Officer deems necessary to sufficiently characterize the lateral and vertical extent of perchlorate that is discharging, has been discharged, or threatens to be discharged to the soil and groundwater from the siteproperty. The work plans shall be implemented in accordance with time schedules approved by the Executive Officer.
- 3. After the Executive Officer determines that the lateral and vertical extent of perchlorate that is discharging, has been discharged, or threatens to be discharged from the siteproperty to the soil and groundwater has been sufficiently defined, submit a detailed remedial action plan, including an implementation schedule, to cleanup or abate the effects of the perchlorate that is discharging, has been discharged. or threatens to be discharged, from the siteproperty. The remedial action plan shall provide for replacement water service, which may include wellhead treatment, for any water supply wells determined by the Executive Officer, based on investigations conducted pursuant to Items 1 and 2, above, to be affected by discharges from the site. The remedial action plan and implementation schedule shall be submitted within 60 days of the Executive Officer's notification to Pyro Spectaculars, Inc., Mr. the Thomas O. Peters Revocable Trust, and Whittaker Corporation that the definition of the extent of perchlorate is sufficiently complete. The remedial action plan and schedule shall be subject to approval by the Executive Officer.

4. Implement the remedial action plan in 3., above, as approved by the Executive Officer.

I, Gerard J. Thibeault, Executive Officer, do hereby certify that the foregoing is a full, true and correct copy of an order adopted by the California Regional Water Quality Control Board, Santa Ana Region, on April 30, 2004.

Gerard J. Thibeault
Executive Officer

California Regional Water Quality Control Board Santa Ana Region

April 30, 2004

ITEM:

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SUBJECT:

Cleanup and Abatement Order No. R8-2004-0042 for Pyro Spectaculars, Inc., Thomas O. Peters Revocable Trust and

Whittaker Corporation

DISCUSSION:

Introduction

The matter before the Board is whether to adopt, modify or reject Cleanup and Abatement Order No. R8-2004-0042. The Order would require Pyro Spectaculars, Inc., the Thomas O. Peters Revocable Trust and Whittaker Corporation to investigate, clean up and abate the effects of perchlorate discharges at an approximately five acre property in Rialto ("the site"), on which about 25 buildings and storage units are situated (Exhibit 1). The site is located at 2298 West Stonehurst Drive on the northeast corner of Stonehurst Drive and the Extension of Alder Avenue and overlies the Rialto Groundwater Subbasin. Beginning in 1969, Whittaker Corporation, the former Trojan Fireworks Company, and Astro Pyrotechnics (currently owned and operated by Pyro Spectaculars, Inc.) and/or their legal predecessors have conducted manufacturing operations on portions of the site. These operations have included perchlorate as a component of the products that were manufactured (Exhibit 2).

Perchlorate in Groundwater in the Rialto Area

Perchlorate contamination was first detected in groundwater in the Rialto and Chino Groundwater Subbasins in 1997. At that time, the California Department of Health Services (DHS) drinking water Action Level (AL) for perchlorate in drinking water was 18 parts per billion (ppb). Two wells contained perchlorate exceeding 18 ppb and were shut down. In January 2002, the DHS lowered the AL to 4 ppb. In response to the reduced AL for perchlorate, the local water purveyors in the Rialto and Chino Groundwater Subbasins restricted or eliminated the use of additional production wells with perchlorate concentrations that exceeded 4 ppb. Between 1997 and the present, various perchlorate dischargers have been identified.

Perchlorate is currently present in the Rialto, Chino I and Chino II Groundwater Subbasins (Exhibit 3). The West Valley Water District, the Fontana Water Company, and the Cities of Rialto and Colton had limited or ceased the use of 20 municipal water supply wells that contained perchlorate. Wellhead treatment systems have been installed on eight of these wells, and these eight wells have been returned to service. However, the remaining 12 wells continue to be unused or are used on a limited basis. There are currently no state or federal drinking water standards for perchlorate. However, on March 11, 2004, the DHS established a revised AL for perchlorate of 6 ppb. The revised AL was based on the new Public Health Goal established by the Office of Environmental Health Hazard Assessment.

Municipal water supply wells in the Rialto, Chino I and Chino II Groundwater Subbasins have been, or are likely to be, affected by the perchlorate pollution in these basins. Regional Board staff has identified numerous parties, and continues in its efforts to identify all parties, that may have discharged perchlorate in these basins.

History of the Site

The site was developed in several phases, beginning as early as 1969. Evidence indicates that the AMEX Products Division of Tasker Industries (AMEX Products) owned at least 1.2 acres of the site in 1969 (Exhibit 4). The AMEX Products facility address was 2298 West Stonehurst Drive, and included a general office and 10 additional buildings. AMEX also operated a test range on 15 acres, adjacent to the AMEX property, at Alder Avenue. AMEX Products designed, tested and fabricated military and commercial pyrotechnic and explosive devices at 2298 West Stonehurst Drive. Perchlorate is known to have been a component of AMEX's products (Exhibit 5). In or about 1972, Tasker Industries merged into Whittaker Corporation (Exhibit 6). Because this transaction was a corporate merger, Whittaker Corporation assumed the liabilities of Tasker Industries. Records indicate that Whittaker Corporation thereafter became the owner of the 1.2 acres at 2298 West Stonehurst Drive until it sold the property to Mr. Robert J. Kennard, who was associated with Trojan Fireworks Company, in 1974 (Exhibit 7). Mr. Thomas O. Peters then purchased the 1.2 acres and additional adjoining property in 1974 (Exhibit 8), creating the approximately 5-acre site. The property is currently owned by the Thomas O. Peters Revocable Trust (Exhibit 9).

Trojan Fireworks Company began operating at the 5-acre site in or about 1973 (Exhibit 10). Trojan Fireworks Company manufactured commercial fireworks through 1988 at this location (Exhibit 11). Perchlorate salts are known ingredients of common fireworks. On or about March 24, 1988, Pyro Spectaculars, Inc. purchased the manufacturing and display divisions of Trojan Fireworks Company, commonly known as Astro Pyrotechnics (Exhibit 11). Astro

Pyrotechnics has operated as a division of Pyro Spectaculars, Inc. since that time.

Pyro Spectaculars, Inc.

As noted above, Pyro Spectaculars, Inc. has owned and operated Astro Pyrotechnics since about 1988. Astro Pyrotechnics manufactures theatrical (1.4G) fireworks and pyrotechnic articles at the site. The fireworks are shipped to off-site, licensed professional customers. The Astro Pyrotechnics facility receives raw materials (including chemicals and paper goods), and assembles various types of fireworks inside small work buildings. At the current-day Astro Pyrotechnics facility, raw and laboratory grade chemicals are stored in bulk in eight of the on-site buildings. Various other buildings are used for the manufacture and storage of fireworks products (Exhibit 12). Four of the work buildings had adjacent concrete pads that were installed in or about January 2003 and were used until mid-2003 for collecting wastewater that was generated during the fireworks manufacturing process. This practice was discontinued at the direction of Regional Board staff (Exhibit 13). Prior to installation of the concrete pads, the wastes were discharged to small earthen containment basins that were lined with plastic (Exhibit 14).

The wastewater generated during the fireworks manufacturing process at Astro Pyrotechnics is a highly saline waste containing potassium nitrate, potassium perchlorate, and other perchlorate salts. Perchlorate salts are highly soluble and dissociate in water to form perchlorate ions.

The Executive Officer issued an Investigation Order to Pyro Spectaculars, Inc. on November 6, 2002 (Exhibit 15). This Order directed Pyro Spectaculars, Inc. to investigate the 5-acre Astro Pyrotechnics facility.

On December 9, 2002, Pyro Spectaculars, Inc. submitted a work plan for investigation of soil adjacent to the concrete pads that were used for collection of liquid waste at Astro Pyrotechnics (Exhibit 16). The proposed fieldwork consisted of five exploratory trench excavations to collect soil samples for analysis of perchlorate. On February 6, 2003, Regional Board staff visited the Astro Pyrotechnics facility and inspected the work buildings, including those used for the manufacture of fireworks. Regional Board staff observed that several of the concrete pads contained wastewater and sludge (Exhibit 17). Concrete is not an effective, permanent barrier to infiltration of liquid, and is therefore not an acceptable waste containment liner. In addition, the pads lacked splash walls, and did not have the capacity necessary to prevent overflow and runoff of waste from a significant storm event.

The Executive Officer conditionally approved the work plan on March 3, 2003 for the investigation of the Astro Pyrotechnics facility (Exhibit 13). The Executive Officer's approval letter required that the work plan be revised to include the

collection of soil samples from the areas immediately beneath the existing concrete pads, instead of from areas adjacent to the pads as proposed in the work plan. In addition, Pyro Spectaculars, Inc. was advised that the concrete pads were not acceptable storage facilities for waste and wastewater at the Astro Pyrotechnics facility and that it must cease the practice. The Executive Officer required the installation of permanent containment facilities, such as appropriately lined storage sumps or ponds, with adequate capacity, as well as secondary containment for the drums of chemical waste that were stored on-site.

In accordance with the investigation work plan approved by the Executive Officer, Pyro Spectaculars, Inc. was required to commence its field activities on July 21, 2003. Pyro Spectaculars, Inc. failed to commence the investigation by the specified date; therefore, the Executive Officer issued an administrative civil liability (ACL) complaint against Pyro Spectaculars, Inc., which has been resolved.

On November 6, 2003, Kleinfelder (the environmental consultant for Pyro Spectaculars, Inc.) excavated five exploratory trenches in the areas of investigation approved by the Executive Officer. Soil samples were collected and analyzed for volatile organic compounds (VOCs), perchlorate, and electrical conductivity.

On December 15, 2003, Pyro Spectaculars, Inc. submitted a "Perchlorate Investigation Report" which summarized the results of Kleinfelder's soil investigations at the site. Perchlorate was found in 12 samples at the site (Exhibit 18). Samples collected at 1, 5, and 10-foot depths in four of the trenches contained perchlorate. Perchlorate concentrations ranged from 1.2 milligrams per kilogram (mg/kg) to 32 mg/kg. The highest perchlorate concentration of 32 mg/kg was detected at the 10-foot depth adjacent to the former location of one of the concrete waste disposal pads. The depth of the trench excavations was 10 feet, so no samples were collected below this depth.

Based on the results of the soil investigations conducted by Pyro Spectaculars, Inc. the site, it is evident that perchlorate has been discharged to soil and likely to the underlying groundwater.

Thomas O. Peters Revocable Trust

The Thomas O. Peters Revocable Trust is the current owner of the 5-acre property at 2298 Stonehurst. Mr. Thomas O. Peters and/or Thomas O. Peters Revocable Trust, has owned the property since 1974 (Exhibit 9). Based on the historical evidence of suspected perchlorate discharges at the property, and prior to Astro Pyrotechnics collecting soil samples at the site, the Executive Officer issued an Investigation Order to Mr. Peters (Exhibit 19), on the basis of available records of his ownership of the property, on July 18, 2003. Mr. Peters was ordered to submit a work plan by August 29, 2003 for conducting an investigation

to define the lateral and vertical extent of perchlorate in soil and groundwater at the site.

On December 18, 2003, an environmental consultant for Mr. Peters submitted a work plan for a limited perchlorate investigation at the site. The proposed fieldwork for the site consisted of 11 exploratory trench excavations to collect soil samples for analysis of perchlorate. This work plan has not been approved by Board staff, and none of the proposed work has been conducted by Mr. Peters.

Whittaker Corporation

Whittaker Corporation is the corporate successor of AMEX Products and Tasker Industries by merger (Exhibit 6). Based on the use, storage, and disposal of explosives and their components by AMEX Products, Tasker Industries and Whittaker Corporation, the Executive Officer issued an Investigation Order to Whittaker Corporation on June 26, 2003 (Exhibit 20). Whittaker Corporation was ordered to conduct a records investigation and submit a report by July 31, 2003 concerning suspected perchlorate discharges at its former Rialto facility.

On July 28, 2003, Whittaker Corporation submitted limited information pertaining to AMEX Products and its production activities at the site between 1969 and 1971 (Exhibit 2).

Based on the information submitted on July 28, 2003, the Executive Officer issued a further Investigation Order to Whittaker Corporation on October 21, 2003 (Exhibit 21). Whittaker Corporation was ordered to submit a work plan by December 16, 2003 for conducting an investigation to define the lateral and vertical extent of perchlorate in soil and groundwater in the vicinity of the site.

On January 13, 2004, Whittaker Corporation submitted a work plan for conducting further investigation activities to assess perchlorate at the site. This work plan has not been approved by Board staff, and none of the proposed work has been conducted by Whittaker Corporation.

Basis for the Cleanup and Abatement Order

Water Code Section 13304 specifies that "Any person ... who has caused or permitted, causes or permits, or threatens to cause or permit any waste to be discharged or deposited where it is, or probably will be, discharged into the waters of the state and creates, or threatens to create, a condition of pollution or nuisance, shall upon order of the regional board, clean up the waste or abate the effects of the waste ... "Cleanup and Abatement Order No. R8-2004-0042 would include findings that demonstrate that Pyro Spectaculars, Inc., Mr. Thomas O. Peters and/or Thomas O. Peters Revocable Trust, and Whittaker Corporation have caused or permitted, or are causing or permitting, waste, i.e., perchlorate, to be discharged. In

summary, the basis for these findings is as follows: Pyro Spectaculars, Inc. has discharged waste containing perchlorate to inadequately lined earthen basins and concrete pads, and soil sampling and analysis have confirmed that perchlorate has been released to the underlying soil.

- Mr. Peters and/or Thomas O. Peters Revocable Trust has owned the 5acre property that is the subject of this order since about 1974, throughout the period of time it has been used for the manufacturing of fireworks, and has responsibility for and control of the activities on the site.
- Whittaker Corporation and its predecessors designed, tested and fabricated pyrotechnic and explosive devices containing perchlorate at the site.

Wastes discharged by Pyro Spectaculars, Inc., Mr. Thomas O. Peters and/or Thomas O. Peters Revocable Trust, and Whittaker Corporation have created or threaten to create a condition of pollution (i.e., an unreasonable effect on beneficial uses). Perchlorate is very mobile in soils, and perchlorate detected in soil at the site threatens to migrate to groundwater. The County of San Bernardino has conducted several phases of soil and groundwater investigation to characterize the perchlorate contamination in the vicinity of the County's Mid-Valley Sanitary Landfill and its adjacent property, the landfill's future Unit 5 expansion area. As part of this investigation, the County installed a network of groundwater monitoring wells. Some of the County's wells are located downgradient of the 5-acre Stonehurst property. Based on the data obtained from the County's wells, perchlorate has been detected in the groundwater downgradient of the site, at concentrations up to 1,000 parts per billion. The site overlies the Rialto Groundwater Subbasin, which has a designated beneficial use of municipal and domestic supply. That beneficial use has been unreasonably affected by perchlorate in the vicinity of the site.

It is appropriate to order Pyro Spectaculars, Inc., the Thomas O. Peters Revocable Trust, and Whittaker Corporation jointly and severally to clean up and abate the effects of the discharge of perchlorate at the site. The proposed order requires Pyro Spectaculars, Inc., Thomas O. Peters Revocable Trust, and Whittaker Corporation to define the lateral and vertical extent of the perchlorate that is discharging, has been discharged, or threatens to be discharged, from the 5-acre property. The proposed order also requires Pyro Spectaculars, Inc., the Thomas O. Peters Revocable Trust, and Whittaker Corporation jointly to submit a detailed remedial action plan to clean up or abate the effects of the perchlorate, after the Executive Officer determines that the lateral and vertical extent of perchlorate that is discharging, has been discharged, or threatens to be discharged from the site has been sufficiently defined.

Rialto Environmental Assessment Partnership (REAP) Proposal

On March 16 and April 14, 2004, Board staff met with representatives for Pyro Spectaculars, Inc., The Thomas O. Peters Revocable Trust, and Whittaker

Corporation, as well as each party's attorneys and environmental consultants, to discuss a cooperative approach to the implementation of investigation plans at the site. Pyro Spectaculars, Inc. has proposed to form the Rialto Environmental Assessment Partnership (REAP), in lieu of conducting the investigation and cleanup activities that would be required at the site by Cleanup and Abatement Order No. R8-2004-0042. The proposed partnership would sponsor a demonstration project for removal of perchlorate from the soil and groundwater in the vicinity of the site. (Pyro Spectaculars, Inc. will present additional information about REAP to the Board as part of Item 18 on the agenda for the April 30 meeting.) Board staff do not consider the REAP proposal and the Order to be mutually exclusive; in fact, the proposed demonstration project appears to be an innovative and potentially feasible remediation technology for this locality, and it could be implemented in accordance with the Order. Therefore, the proposed Order contains a finding recognizing the REAP proposal and stating the Board's intent to revise the Order if necessary to allow future implementation of REAP.

RECOMMENDATION:

Adopt Cleanup and Abatement Order No. R8-2004-0042 as presented.

Robert Thompson The Honorable Senator Nell Soto 822 N. Euclid Ave., Suite A Ontario, CA 91762

The Honorable Senator Nell Soto State Capital, Room 4078 P.O. Box 942848 Sacramento, CA 94248-0001

Anthony Araiza , Jerry Eagans & León Long West Valley Water District P.O. Box 920 Rialto, CA 92377-0920

Barry Groveman & Steve Ellie Musick, Peeler & Garrett 624 S. Grand Ave., Suite 2000 Los Angeles, CA 90017-3383

Christine Brown, Wendy Arano and Aaron Yue California Dept. of Toxic Substances Control 5796 Corporate Ave.
Cypress, CA 90630

Danielle Sakai & Gene Tanaka Best, Best & Kreiger 3750 University Ave., Mission Square Riverside, CA 92501

Glen Yabuno & Ken Ayers County of San Bernardino Specialized Prosecutions Unit 412 W. Hospitality Lane, Ste. 301 San Bernardino, CA 92415-0023 Kevin P. Mayer U.S. EPA, Region IX (Region 9) 75 Hawthorne Street, SFC-7-2 San Francisco, CA 94105-3901

Kathleen Kenealy & Gary Tavetian California Office of the Attorney General Deputy Attorney General 300 S. Spring St., Ste. 500 N Los Angeles, CA 90013-1204 Mike Whitehead, Mike McGraw, Jim Bryson & Gerald J Black Fontana Water Company P.O. Box 987 Fontana, CA 92335

Mike Bledsoe & Michael Wochnick California Integrated Waste Management Board P.O. Box 4025 Sacramento, CA 95812-4025

Sarah Mueller, Wayne Praskins & Matt Mitguard U.S. EPA - Region 9 75 Hawthorne Street San Francisco, CA 94105

Susan M. Trager & Francis D. Logan, Jr. Law Offices of Susan M. Trager 19712 MacArthur Blvd., Ste. 120 Irvine, CA 92612 Peter Fox, Tim Mim Mack & Robert Owen City of Rialto Public Works Department 150 S. Palm Avenue Rialto, CA 92376 Tim Ryan & Robert Young San Gabriel Valley Water Company Fontana Water Company 11142 E. Garvey Ave. El Monte, CA 91732

Tom Soto PS Enterprises 3350 Ocean Park Blvd., Ste. 205 Santa Monica, CA 92405

Bob Bradford, Manager of Operations Burrtec Waste Industries, Inc. 222 W. Hospitality Lane, 2nd Floor San Bernardino, CA 92408

Ken A. Miller & Art Rivera County of San Bernardino Public Works Dept. (Flood Control Dist.) 222 W. Hospitality Lane, 2nd Floor San Bernardino, CA 92415-0017

Charles Whisonant Law Offices of Charles Whisonant 620 Newport Center Drive, 11th Floor Newport Beach, CA 92660

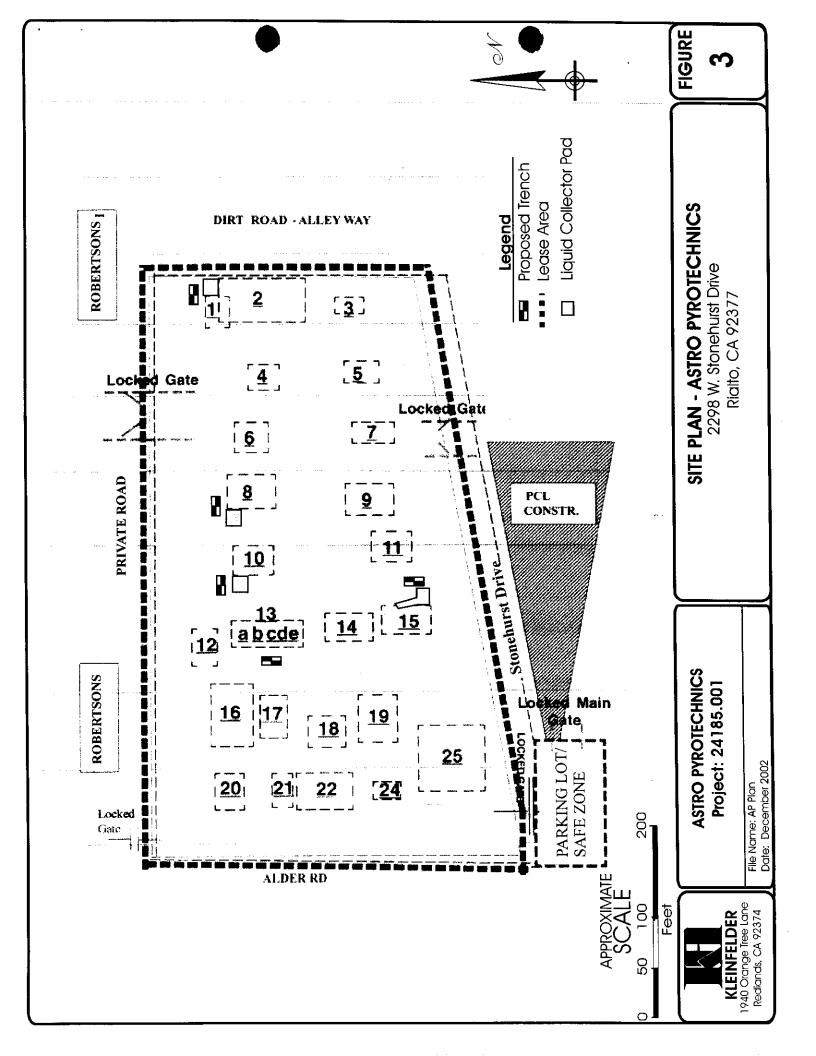
James Peterson Senator Dianne Feinstein 750 B Street, Suite 1030 San Diego, CA 92101 Richard Haberman
California Department of Health Services
Drinking Water Field Operations Branch
1040 E. Herndon Ave., Ste. 205
Fresno, CA 93720

Ralph Murphy & Gary Lass Geologic Associates (GLA) 1831 Commercenter East San Bernardino, CA 92408

Joel Moskowitz Moskowitz, Brestoff, Winston & Blinderman, LLP 1880 Century Park East., Suite 300 Los Angeles, CA 90067-1603

Kevin P. Mayer U.S. EPA, Region IX (Region 9) 75 Hawthorne Street, SFC-7-2 San Francisco, CA 94105-3901







TROJAN FIREWORKS CO. + 13500 EXCELSIOR DRIVE + NORWALK, CALIFORNIA 90650

January 9, 1973



City of Rialto Planning Commission Mr. Richard E. Downing, Olrector 150 South Palm Avenue Rialto, California 92376

> Re: APPLICATION FOR CONDITIONAL DEVELOPMENT, 2-1/2 Acres N/E Corner Stonehurst and Alder Streets, Rialto, California

Gentlemen:

We respectfully submit herewith our application for conditional development of the stated property, now located in the City of Rialto.

It is our intention to re-activate this plant and manufacture only California "safe and sane" commercial fireworks as approved by the State Fire Marshal for retail sale each fourth of July season. Although this facility was formerly licensed and used by American Explosives Company (AMEX) for production of military pyrotechnics, we do not intend to engage in the production of Class A explosives, but limit it to Class C only.

The plot plan submitted herewith indicates the proposed usage of existing structures. Storage, both existing and proposed, will most likely consist of only such raw materials as paper tubes, paper cones, corrugated shipping containers, adhesives, labels, etc. Chemical storage is scheduled for our facilities immediately to the north in the former government bunkers where we operate our display fireworks division, known as Astro Pyrotectales. As goods are finished in this facility they will be dispatched to our Normalk warehouses via our own vehicular equipment, for final assembly and packaging.

Any doubts as to the ability of our company to set-up, maintain and operate such a facility can readily be answered. The petitioner, 0. D. Peters, president, has over 27 years experience in this field, our vice-president, Mr. B. W. Wells is probably one of the outstanding pyrotechnicians in the world

Continued

City of Rialto Planning Commission Page -2-Jánuary 9, 1973

(see resume attached), and the plant superintendent, Mr. Gerald Gerth is likewise well-versed in the field, being a graduate chemical engineer from California Institute of Technology.

We look forward to favorable action on our application, and pledge our efforts to making this a production facility that will please the administrators and citizens of Rialto. If further facts or information is needed, please call on us.

Yours very truly,

TROJAN FIREWORKS CO.

O. D. Peters, President

ODP; dv

Enc.

FD9. 1991

Schedule C

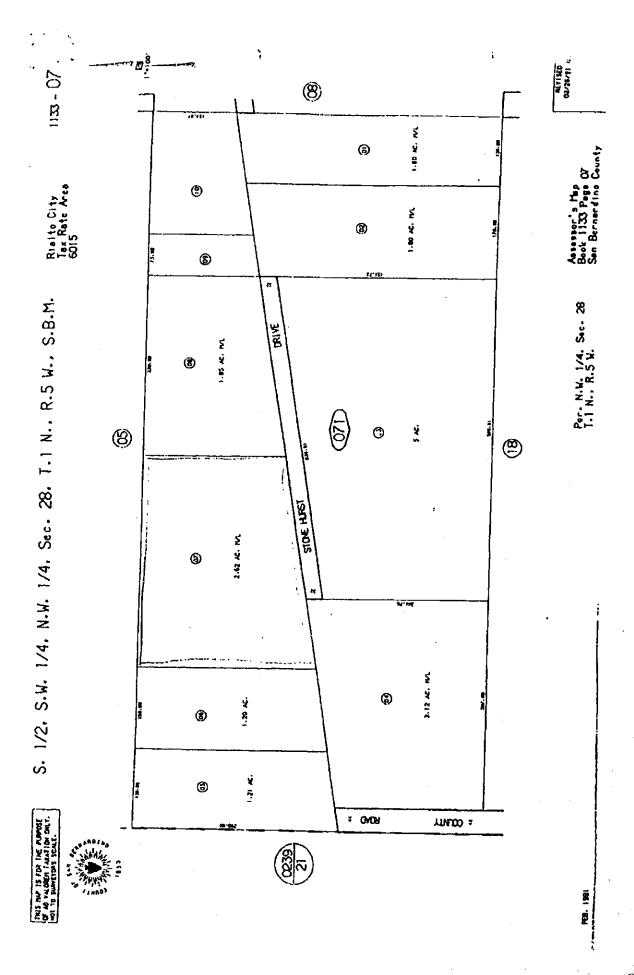
The land referred to in this policy is described as follows:

THAT PORTION OF THE SOUTH 660 FEET OF THE NORTHWEST ONE-QUARTER OF SECTION 28, TOWNSHIP 1 NORTH, RANGE 5 WEST, SAN BERNARDINO MERIDIAN, IN THE COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL PLAT THEREOF, DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHWEST CORNER OF THE SOUTH 660 FEET OF SAID NORTHWEST ONE-QUARTER OF SECTION 28; THENCE EAST ALONG THE NORTH LINE OF SAID SOUTH 660 FEET, 300 FEET TO THE NORTHEAST CORNER OF PROPERTY CONVEYED TO WILLIAM L. LYON AND WIFE, BY DEED RECORDED MAY 12, 1955 IN BOOK 3643 PAGE 154, OFFICIAL RECORDS, BEING THE TRUE POINT OF BEGINNING; THENCE CONTINUING EAST ALONG THE NORTH LINE OF SAID SOUTH 660 FEET TO THE NORTHWEST CORNER OF THE PROPERTY CONVEYED TO JAMES G. JEFFERYS AND WIFE BY DEED RECORDED DECEMBER 31, 1954 IN BOOK 3537 PAGE 326 OFFICIAL RECORDS; THENCE SOUTH ALONG THE WEST LINE OF SAID JEFFREYS PROPERTY TO THE SOUTHWEST CORNER THEREOF; THENCE SOUTH 79° 37' WEST TO THE SOUTHEAST CORNER OF SAID WILLIAM L. LYON PROPERTY; THENCE NORTH ALONG THE EAST LINE OF SAID LYON PROPERTY TO THE POINT OF BEGINNING.

S A R W Q C B

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COUNTY OF SAM BERNARDING

COUNTY FIRE DEPARTMENT

Kazargous Materials Division 3815 Morth Arrawband Avenue, Second Floor . San Dynamicse, CA 52415-0153



FICHARD. VI. SEWELL Fire Chie

June 4, 1997

Astro Pyrotechnics 2296 W. Stonehurst Risko, CA 92376

Facility menufactures theatrical and small stadium fireworks.

Facility was inspected on March 17, 1997 for compliance with hazardous meterial and waste laws and regulations. John Jeska of this Department was sho present.

Facility has current permits as a hazardous material handler and a hazardous waste generator from this Department.

The Business/Contingency Plan was last updated in January 1994.

The facility has small buildings that hold raw materials and for manufacturing of the fireworks. Magazines on site are used to store finished product, weste chemicals, and unusable or off specification floworks.

Assembly of the freworks is conducted in small pre-fab buildings. The chemicals are formed or pressed into shape and containstized. The "contizer" building has a hydraulic oil teak coming from its hydraulic press. The oil has leaked through the floor and has pooled on the ground next to the building.

Two buildings have small concrete bermed areas next to them that are used to collect the chemical awaspings (wasts) that have fallen on the floor from the manufacturing process. The floors inside the buildings are weeked out with water. The chemicals on the floor are washed out into these shallow bermed areas and kept underwater. The water is periodically drained and the "skudger" is collected and stored in the magazines to await disposal. About 50 pounds are collected before they are burned on alla.

Off specification fireworks are also kept in the magazines. Leo Autote of Astro Pyrotechnics and Dean Collister and Gary Brown of Pyro Speciacular, stated in person or in phone conversations that these wastes are hauled off site under a bill of leding, with approval from the State Fire Marshalf's office. These wastes are disposed of by burning, most recently in Merced County. Copies of the bills of lading were requested from Mr. Collister on March 28, 1997, but none have been received by this Department.

Grag Smith and Marge Yarbrough of the State Fire Marshall's office stated that Pyro Spectacular (parent company of Astro Pyrotechnics) was under a one-time contract last year to remove confiscated fireworks from Southern California area fire departments and Sheriff's offices and was allowed to hauf some of their own wastes under that contract. No current contract exists with the State Fire Marshall's office for removal of any waste from either company.

The South Coast Air Quality Management District has given the facility a yearly clearance which allows the Righto Fire Department to approve burn permits on Autro Pyrotechnics property with certain restrictions.

Off specification freworks and manufacturer chemical floor sweepings meet the definition of hazardous waste under 22 CCR 88261.2(c) and 88262.21. They are wastes because they are disposed of by burning and meet RCRA hazardous waste criteria because of their ignitibility characteristic.

Requirements to be completed within 30 days:

- All hazardous wastes must be properly contained and labeled. The label must have the words "Hazardous Waste" on it and the following Information must be completed: Name and address of facility, accumulation start date, contents and composition, physical state and hazardous properties. A sample label is enclosed.
- Storage areas for hazardous wasts must be inspected weekly and a log kept of the inspections. A sample form is enclosed.
- 3. All hezardous waste must be removed by a licensed hazardous waste hauler, and transported to a permitted facility. The hazardous waste must be removed from the facility within 180 days of the accumulation start date (90 days if more than 1000 kg/month is generated).

- 4. Hazardous wastes must be hauted with a hazardous waste manifest when removed from the facility. Hazardous waste manifests must be kept on site and available for review for a minimum of times (3) years.
- An EPA ID number is required to generate and have hazardous waster hauled off site. This number can be obtained by calling (415) 495-8895.
- 8. Properly contain all leaks and operate machinery and equipment to prevent leaks or spills. Properly clean up and dispose of, as hazardous waste, oil and contaminated soil from around production building. Submit the manifest to this Department.
- Update and aubmit the Business/Contingency Plan. Continue to submit updates at least armusity.
- 8. Burning of off specification fireworks and chemical floor sweepings is considered treatment end/or disposal of a hazardous waste. Immediately cease treating or disposing of these hazardous wastes by burning without authorization or a permit from the State Department of Todo Substances Control (DTSC). Permits from other jurisdictions, such as Rielto Fire Department, South Coast Air Quality Management District, or the States Fire Marshall's office, do not give a variance to any laws or regulations in handling or disposing of hazardous waste. Contact DTSC at (310) 590-4868 for information on permits required for treating or disposing of hazardous waste.
- 8. Releasing the water covering the chemical floor sweepings to the ground is an idegal discharge of a hazardous wasts. The water must be analyzed by a State Certified Laboratory to verify that it does not meet hazardous wasts criteria, including toxicity and ignitiability. A list of State certified analysis to this Department. Submit a copy of the completed analysis to this Department. Discharge of wastswater to the surface of the ground is prohibited unless written approval has been granted by the Rieflo Water/Wastawater Department, and/or Senta Ana Regional Water Quality Control Board.

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EPA ID number
Business/Contingency Plan update
Manifest for contaminated soil removal
Analysis of water covering the chemical floor sweepings

When the above requirements have been completed, submit the completed Contificate of Compliance with all required documents to this Department.

If you have any questions, call (909) 387-3080.

GREG BEACH, R.E.H.S. Hazardous Materials Field Services

GEW

Encioeures

SBCHMD



January 17, 1984

Apollo Manufacturing Mr. Ralph Apel 3196 North Locust Avenue Rialto, California 92376

Re: Hazardous Waste

Dear Ralph:

The materials disposed of in the pond by Pyro Spectaculars are various aerial shells. The amounts would vary from 0 per month up to about 15 or 20 per month at peak season (July-August).

Sizes would range from 3"-6" with occasional larger shells. The chemicals generally found in these shells are listed below, with an average shell, pyrotechnic content of 800 grams:

Charcoal
Sulphur
Aluminum
Magnesium
Potassium Nitrate
Potassium Perchlorate
MG and AL Alloy

Barrium Nitrate
Gum
Strontium Carbonate
Carbon
Resinox
Strontium Nitrate

Very truly yours,

PYRO SPECTACULARS, INC.

Bill Lehman Plant Manager

BL/dr

COUNTY FIRE DEPARTMENT

COUNTY OF SAN BERNARDING

RICHARD.W. SEWELL Fire Chief County Fire Warden

HAZARODUS MATERIALS DIVISION
386 North Arrawhead Avenue, Second Floor . San Bernardine, CA 92415-0163

June 4, 1997

Astro Pyrotechnics 2298 W. Stonehurst Rialto, CA 92378

Facility manufactures theatrical and small stadium fireworks.

Facility was inspected on March 17, 1997 for compliance with hazardous material and waste laws and regulations. John Jeska of this Department was also present.

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 accumulation start date, contents and composition, physical state and
 hazardous properties. A sample label is enclosed.
- Storage areas for hazardous waste must be inspected weekly and a log kept of the inspections. A sample form is enclosed.
- 3. All hazardous waste must be removed by a licensed hazardous waste hauler, and transported to a permitted facility. The hazardous waste must be removed from the facility within 180 days of the accumulation start date (90 days if more than 1000 kg/month is generated).

Astro Pyrotechnics Page 3

- 4. Hazardous wastes must be hauled with a hazardous waste manifest when removed from the facility. Hazardous waste manifests must be kept on site and available for review for a minimum of three (3) years.
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- Update and submit the Business/Contingency Plan. Continue to submit updates at least annually.
- 8. Burning of off specification fireworks and chemical floor sweepings is considered treatment and/or disposal of a hazardous waste. Immediately cease treating or disposing of these hazardous wastes by burning without authorization or a permit from the State Department of Toxic Substances Control (DTSC). Permits from other jurisdictions, such as Rialto Fire Department, South Coast Air Quality Management District, or the State Fire Marshall's office, do not give a variance to any laws or regulations in handling or disposing of hazardous wasta. Contact DTSC at (310) 590-4868 for information on permits required for treating or disposing of hazardous wasta.
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Astro Pyrotechnics Page 4

The following documents must be submitted to this Department within 30 days:

EPA ID number
Business/Contingency Plan update
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Analysis of water covering the chemical floor sweepings

When the above requirements have been completed, submit the completed Certificate of Compliance with all required documents to this Department.

If you have any questions, call (909) 387-3080.

GREG BEACH, R.E.H.S.

Hazardous Materials Field Services

GB:vr

Enclosures.

8AN BERNARDINO COUNTY FIRE DEPARTMENT HAZARDOUS MATERIALS DIVISION HAZARDOUS MATERIAL INVENTORY FORM

Non-Trade Secret Page

FACILITY NAME:	Autro Pyrotechnica	TEM #			
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County of San Bernardino

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HAZARDOUS MATERIALS FIELD SERVICES - 385 North Arrowhead Avenue/Sen Sementine, CA 92415-0180 1 (714) 387-3080

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Impedia Maria

Additional Comments:

FIRE PROTECTION AGENLY AND SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

APPLICATION AND PERMIT TO BURN

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/A Powder the are	Melting Point Evaporation Rate (Butyl Acetate = 1) Order Leas. Flavorable Limbs 11/A	Mixture suppli	W/A W/A UEL es its
	formation	Form Approved OMB No. 1218-0072 Abit: Stank spaces are not permitted information in evaluable, the spaces are not permitted information in evaluable, the spaces are not permitted in spaces are not permitted in the spaces of Property (214) 822-3758 Date Prepared 10/15/86. Signature of Preparer (applicate)	Form Approved OMB No. 1218-0072 Nois: Stank appears are not parellised. If any then it and application is evaluable, the space asset be marked to information is evaluable, the space asset be marked to information (714) 822-3758 Telephone Humber for Information (714) 822-3758 Date Prepared 10/15/86 Signeture of Preparer (aprioring) Formation Name(8) - ACGIN TLV CAS 4 0.5 mg/H ² 10022-31-

(Reproduce locally)

Section V —	Reactivity Date	1			
Stability	Livetable	1	Conditions to Avoid heat. I	lane	e, inpact or electric sparks.
	Stable	1			
	1		<u></u>		
proceedings in	Meterials to Avoid		EDOWD.		· · · · · · · · · · · · · · · · · · ·
Heresdoue Decor	провети от Вургой		xides of Nitrogen, H	ydro.	ogen Gas, Hydrochloric Adid of Chlorine, Oxides of Carbon
TOXIC SHOK	May CONTAI	21 }	Conditions to Avoid	<u> </u>	OI OHIOTEMA STATE
Polymerization					
	Will Not Occur	X			
Section VI	Health Hazard	Deta			
Route(a) of Entry		wdos?	Skyl		Ingretion
Heem Hezeway Dust 1s	toxic. Hil	dly	irritating to skin ar	ıd ey	eyes. Toxic if swallowed.
			·		•
				_	•
Cascinopericity:	NII	77	WRC	Mono	rographs? OSHA Requisited?
not for	md				
Signs and Symp	tome of Exposure	Skin	and eye redness.		
			•		•
Medical Condition			mknova		,
Generally Aggree	eted by Exposure		— ·		
mergency and	First Aid Properties	; th wa	ter for 15 minutes.	If.	irritation persists, get medical attention.
FBE_EY			n and water. If swa	llow	wed, consult physician ismediately.
For sti	Proceedings	br Sa	te Handling and Use	 -	
					total commention dust. But in
Caution	sly sycep u	MYC	U BACRIST LIDER DIOS	h or	r broom. Avoid generating dust. Put in
fiber	trum and cove	er fo	r disposal. Recover	dry	y if possible.
Waste Disposed	Method		Annine area in acco	Trias	ence with Federal, State and Local regulation
Dispose	e of in appr	OVER	butning area in account		To not hurn in large quantities.
					sixtures. Do not burn in large quantities.
Precautions to 8	le Taken in Hending	COAR Second	ored at all tipes. /	void	id extreme heat, open flames and rough
Keep C	DOTT ATT HER		e contrate with the		i parts. Conductive flooring and footwear
handli	ne Avold	_1 x 1 x	ng and tumbling areas	i.	
Ogist / Isocono					
				سوجيو.	
Section VIII	— Control Mas	sure&			
Respiratory Prot	action (Specify Des		pirator in areas wh	ere :	dust is present.
			PATEROL IN OLUMN		Special
Versitation	Local Echanal	Gene	ral room ventilation		
	Mechanical (Gene				Other
Protective Glove	<u></u>		T	Eye P	Protection safety glasses
	Inpoci		28		STECH BITTOGES
Other Protective	Clothing or Equipm	eri Vote	clothes in mixing a	nd t	tumbling areas.
wid tygionic F	over calling				for accomplation of dust or residue.
Cond_b	onsekceping	CODE	ntial. Keep area II Paga	EE I	from accumulation of dust or residue.
			r uya	_	

Material Safety Data St	199 1
May be used to comply with OSHA's Hezard Communication	n Stendard.
29 CFR 1910,1200. Standard 1	De Mark
consulted for specific requirement	oris.
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U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)



9 CFR 1910,1200. Standard must be	Form Approved		
onsulted for specific requirements.	OMB No. 1218-0072		Analda er en
DENTITY the Used on Label and Liety	Motor: Etherik apaces are not permitted, if information is available, the apace	early per serving to	Indicate that
Section I			
Manufacturer's Nume	Energency Telephone Number		
CRIEBRITY PIREFORMS, INC.	(714) 822-3758 Teliphone Number for Information		
Address (Phinther, Street, City, State, and ZIP Code)			
P.O.Box 1429	(714) 822-3758		
	44 14 18 18 4		
2AAO W. Alder	Signature of Preparer (spillones)		
lialto, CL. 923/0			
Section II — Hazardous Ingredients/Identity Inform			
Hecardous Components (Specific Chemical Identity; Common Name	ACCORTILY	CAS +	
Hazardota Component squares some	0.5 mg/H ³	10022-3	1-5
Barium Hitrate			
Dextrin	5.mg/M³	777R-74	-7
Potassium Perchiorate			
Red Gum			
Sodium Oxalate		<u> </u>	
Stearic Acid	<u> </u>	57114	
Section III — Physical/Chemical Characteristics			
Section III — Physical/Chemical Characteristics Boiling Point	Specific Gravity (HgO = 1)		R/A
Nacor Pressure (non Hg.)	Moting Print		R/A R/A
Soiling Point : It/A Vepor Pressure (non Hg.) Venus Density (AR = 1)			
Bailing Point : H/A Vepor Pressure (nm Hg.) 16/A	Metting Point Evaporation Rate		N/A
Boiling Point Vepor Pressure (nim Hg.) Vapor Density (AIR = 1) H/A	Metting Point Evaporation Rate (Butyl Acatate = 1)		N/A
Boiling Point Wepor Pressure (non Hg.) Wapor Density (ARR = 1) Solubity in Water Hoderate Appearance and Odor Pinkish Granular Powder	Meting Point Everporation Rate (Dutyl Acetate = 1) r, Odorless		1/A 1/A
Boiling Point : H/A Vapor Pressure (nm Hg.) Vapor Density (AR = 1) Solubility in Water Hoderate	Metting Point Evaporation Rate (Butyl Acatate = 1)	LE.	N/A
Boiling Point Vepor Pressure (num Hg.) Vapor Density (ARR = 1) Solubility in Waser Hoderate Appearance and Oder Pinkish Granular Powder Section IV — Fire and Explosion Hazard Data That Brief Method Uses	Meting Point Eveporation Rate (Dutyl Acetate = 1) r, Odorless Flammable Limits	LE.	1/A 1/A
Boiling Point Vepor Pressure (non Hg.) Vapor Density (ARR = 1) Solubity in Water Hoderate Appearance and Odor Pinkish Granular Powder Section IV — Fire and Explosion Hazard Data Flash Point (Method Uped) N/A Estinguishing Media	Meting Point Evaporation Rate (Suryl Acetate = 1) r, Odorless Parametric Limbs R/A		H/A H/A
Boiling Point Vapor Pressure (num Hg.) Vapor Density (ARR = 1) Solubility in Water Hoderate Appearance and Odor Pinkish Gramular Points: Section IV — Fire and Explosion Hazard Data Flash Point (Method Uped) Estingularing Media NONE Special Fire Fighting Procedure DO NOT TRY TO EXTINGUISH Clear the	Evaporation Pate (Dutyl Acetate = 1) r, Odorless Flammable Limbs R/A area and allow to burn. M	ixture supp	WEL.
Boiling Point N/A Vapor Pressure (non Hg.) N/A Vapor Density (ARR = 1) N/A Solubility in Water Hoderate Appearance and Odor Pinkish Gramular Powder Section IV — Fire and Explosion Hazard Data Flash Point (Method Upod) N/A Extingularing Media NONE Special Fire Fighting Procedures DO NOT TRY TO EXTINGUISH Clear the Own Oxygen to feed the fire. Unusual Fire and Explosion Hazards Can be ignited by spark, friction or	Prepositor Pate (Stuyl Acetate = 1) r, Odorless Flavorable Limbs R/A area and allow to burn. M impact. Containers of bul	ixture supp	WEL lies its may explode
Waper Pressure (non Hg.) Vapor Density (ARR = 1) Solutility in Waser Hoderate Appearance and Oder Pinkish Granular Postde: Section IV — Fire and Explosion Hazard Data Flash Point (Method Upod) Edingulating Media NONE Special Fire Fighting Procedure DO NOT TRY TO EXTINGUISH Clear the	Prepositor Pate (Stuyl Acetate = 1) r, Odorless Flavorable Limbs R/A area and allow to burn. M impact. Containers of bul	ixture supp	WEL lies its may explode

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¥	Unstable	- -	Conditions to Avoid heat. flame, impact or electric sparks.
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	(Blaterials to Avo	unh	known Oxalic Acid Oxalic Acid Oxalic of Chloring, Oxides of Mitrogen
rooms Dec	KE HAY CONT	AIN: 0	Oxides of Barium, Oxides of Chlorine, Oxides of Hitrogen
erdoliii	New Cooper		Conditions to Araid
yenestzelőci	Will Not Octu	, x	
			Ingested?
action VI	Health Hez	S-S-S-S-S-S-S-S-S-S-S-S-S-S-S-S-S-S-S-	.*
	- g-	<u></u>	Toxic if swallowed.
Dust	toxic.	nildly.	irritating to skin and eyes. Toxic if swallowed.
. ·		Arthur	MAIC Monographs? OSHA Regulated?
archogenici	ound ound	NIPI	
not I	Cound		
Some and S	ymptores of Exposu	M St.J.	n and eye redness.
		okil	
	-		maknowa
Medical Con Generally Ac	distant presented by Expon	40	unknova
		den	Te demitted nergists. get medical attenti
			water for 15 minutes. If irritation persists, get medical attention persists, get medical atte
For	ekin, yesh	vith to	pap and vaters is seen the
Section V	Akin, wash. Vi — Precassio Takan in Case Ma	ons for Sonder In Paris	pap and vater. It burney and vater and use the Handling and Use black or broom. Avoid generating dust. But in it has brush or broom. Avoid generating dust.
Section V	Akin, wash. Vi — Precassio Takan in Case Ma	ons for Sonder In Paris	pap and vater. It burney and vater and use the Handling and Use black or broom. Avoid generating dust. But in it has brush or broom. Avoid generating dust.
Section V Steps to Be Caut	skin. wash /# Precamic Taken in Case Ma tionaly swee er drum and	with 40 one for 8 middle Rei p up vi cover f	pap and water. It bushesses the Handling and Use seemed or Spiled ith natural fiber brush or broom. Avoid generating dust. Put in for disposal. Recover dry if possible.
Section V Steps to Be Caut	akin, wash. /# — Precamic Thisn in Case Ma tionally sweet er drum and	one for 8 model is Rei p up vi cover f	pap and vater. Safe Handling and Use Sened or Spiled ith natural fiber brush or broom. Avoid generating dust. Put in for disposal. Recover dry if possible.
Section V Steps to Be Caut	akin, wash. /# — Precamic Thisn in Case Ma tionally sweet er drum and	one for 8 model is Rei p up vi cover f	pap and vater. Safe Handling and Use Sened or Spiled ith natural fiber brush or broom. Avoid generating dust. Put in for disposal. Recover dry if possible.
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Section V Shops to Be Gaut fibe Waste Disp Dis	ekin. wash. /// — Precamble Takan in Case Mationally swee er drum and come Matind pose of in a extress car	with 10 ons for 8 sheds in Rei p up wi cover f approved ation is	cap and water. It bushed the standing and Use beened or Spiled ith natural fiber brush or broom. Avoid generating dust. Fut in for disposal. Recover dry if possible. In disposing pyrotechnic mixtures. Do not burn in large quantities of Spoing the stand of Spoing the standing of Spoing beat, open flames and rough
Section V Shops to Be Gaut fibe Waste Disp Dis	ekin. wash. /// — Precamble Takan in Case Mationally swee er drum and come Matind pose of in a extress car	with 10 ons for 8 sheds in Rei p up wi cover f approved ation is	cap and water. It bushed the standing and Use beened or Spiled ith natural fiber brush or broom. Avoid generating dust. Fut in for disposal. Recover dry if possible. In disposing pyrotechnic mixtures. Do not burn in large quantities of Spoing the stand of Spoing the standing of Spoing beat, open flames and rough
For Section V Shope to Be Caut fibe Disp Disp Use Precaution Kee	ekin. wash. /# — Precardo Taken in Case Ma ionaly swee er drum and cose Method pose of in a extreme can a to Be Taken in H p cool, dry	with 10 ons for 8 sade in Rei p up vi cover f approved ation is anding and and co	case Handling and Use description of Spiled ith natural fiber brush or broom. Avoid generating dust. Fut in for disposal. Recover dry if possible. de burning area in accordance with Federal, State and Local regula in disposing pyrotechnic mixtures. Do not burn in large quantities de Storag overed at all times. Avoid extreme heat, open flames and rough overed at all times. Avoid extreme heat, open flames and footween
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Section V Steps to Be Caut fibs Waste Disp Dis Use Precention Kee	ekin. wash. /# — Precamic Taken in Case Ma tionally swee er drum and come Method pose of in a extreme can to be Taken in H p cool, dry adding. Ayo cautors in	with 40 one for 8 model in Rel ip up vi cover f approved ation is moding and and co id atox all mix	Date Handling and Use Discount of Spiled ith natural fiber brush or broom. Avoid generating dust. Fut in for disposal. Recover dry if possible. In disposing protechnic mixtures. Do not burn in large quantities of Storing overed at all times. Avoid extreme heat, open flames and rough overed at all times. Avoid extreme heat, open flames and footwer care containers with metal parts. Conductive flooring and footwer ring and tumbling areas.
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Section V Sheps to Se Gaut fibs Waste Disp Dis Use Precaution Kee han Other Prec Section Respirator	skin, wash. // — Precause. Taken in Came Mationally sweet er drum and come Method pose of in a extreme car s to be Taken in H p could dry adding. Ayo cautom in VIE — Contro y Protection Speed USH Approved	with 40 one for 8 seeded in Rei up up vi cover f approve ation in meding and and co id ator all mix	Date Handling and Use Disconting Spiled It natural fiber brush or broom. Avoid generating dust. Put in for disposal. Recover dry if possible. In disposing pyrotechnic mixtures. Do not burn in large quantities of Storing overed st all times. Avoid extreme hest, open flames and rough overed st all times. Avoid extreme hest, open flames and footween the containers with metal parts. Conductive flooring and footween the containers with metal parts. Conductive flooring and footween the containers with metal parts. Conductive flooring and footween the containers with metal parts. Conductive flooring and footween the containers with metal parts. Conductive flooring and footween the containers with metal parts. The containers with metal parts are containers with metal parts. Conductive flooring and footween the containers with metal parts. The containers with metal parts are containers with metal parts. Conductive flooring and footween the containers where dust is present.
For Section V Steps to Be Caut fibs Waste Otep Dis Use Precession Kee	skin. wash. // — Precause // Taken in Came Mationally sweet er drum and come Method pose of in a extreme car to be Taken in H p coul, dry cautions in // Control // Protection (Special USH Approved In Loos Edm	with 40 one for 8 sedel in Rei p up vi cover f approved a	Safe Handling and Use Safe Handling and Use Safe Handling and Use Safe Handling and Use It natural fiber brush or broom. Avoid generating dust. Put in for disposal. Recover dry if possible. In disposing area in accordance with Federal, State and Local regula In disposing pyrotechnic mixtures. Do not burn in large quantities It states and rough States and rough The states are successed as all times. Avoid extreme heat, open flames and rough The containers with metal parts. Conductive flooring and footwer The states are successed as all times areas. The states are successed as all times areas. The states are successed as all times areas. The states are successed as all times areas where dust is present. The states are successed as all times areas where dust is present. The states are successed as all times areas where dust is present.
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Section Vestion Vestion Vestion Vestion Vestion Processor Section Respirator Protective Protectiv	Akin. Wash. All — Precause of Taken in Came Matter of the and	with 40 pers for 8 persons for	Sefe Handling and Use Ith natural fiber brush or broom. Avoid generating dust. Put in for disposal. Recover dry if possible. Ith natural fiber brush or broom. Avoid generating dust. Put in for disposal. Recover dry if possible. Ith disposal area in accordance with Federal, State and Local regula Ith disposing pyrotechnic mixtures. Do not burn in large quantities Ith disposing pyrotechnic mixtures. Do not burn in large quantities Ith disposing pyrotechnic mixtures. Do not burn in large quantities Ith disposing pyrotechnic mixtures. Do not burn in large quantities Ith disposing pyrotechnic mixtures. Do not burn in large quantities Ith disposing pyrotechnic mixtures. Do not burn in large quantities Ith disposing pyrotechnic mixtures. Do not burn in large quantities Ith disposing pyrotechnic mixtures. Do not burn in large quantities Ith disposing pyrotechnic mixtures. Do not burn in large quantities Ith disposing pyrotechnic mixtures. Do not burn in large quantities Ith disposing pyrotechnic mixtures. Do not burn in large quantities Ith disposing pyrotechnic mixtures. Do not burn in large quantities Ith disposing pyrotechnic mixtures. Do not burn in large quantities Ith disposing pyrotechnic mixtures. Do not burn in large quantities Ith disposing pyrotechnic mixtures. Do not burn in large quantities Ith disposing pyrotechnic mixtures. Do not burn in large quantities Ith disposing pyrotechnic mixtures. Do not burn in large quantities Ith disposing pyrotechnic mixtures. Do not burn in large quantities Ith disposing pyrotechnic mixtures. Do not burn in large quantities Ith disposing pyrotechnic mixtures. Do not burn in large quantities Ith disposing pyrotechnic mixtures. Do not burn in large quantities Ith disposing pyrotechnic mixtures. Do not burn in large quantities Ith disposing pyrotechnic mixtures. Do not burn in large quantities Ith disposing pyrotechnic mixtures. Do not burn in large quantit
Por Bection Vente Disputs Vente Disputs New Years Sortion Respirator Vente Disputs New Years New	Akin. Wash. All — Precause of Taken in Came Matter of the and	with 40 pers for 8 persons for	Safe Handling and Use Seemed Spiled ith natural fiber brush or broom. Avoid generating dust. Put in ith natural fiber brush or broom. Avoid generating dust. Put in for disposal. Recover dry if possible. In disposing pyrotechnic mixtures. Do not burn in large quantities of Storing overed st all times. Avoid extreme heat, open flames and rough crare containers with metal parts. Conductive flooring and footwering and tumbling areas. The respirator in areas where dust is present. The projection safety glasses Eye Projection safety glasses

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Material Safety Data Sheet
May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)

Form Approved



29 CFR 1910,1200. Standard must be consulted for specific requirements.		Form Approved OMB No. 1218-0072		
IDENTITY (As Used on Linbal and Lind) BLUE COLOR		Note: Barst spaces are not permitted information in available, the spi-	i, il any hom is not applica sca must be readed to be	echt, or oo drawn Phot.
Section i				
Maradactura's Norte		Emergency Telephone Humber	157 .	· · · · · · · · · · · · · · · · · ·
CELEBRITY FIREPORKS, INC.		(714) 822-3758	C-1	
Address Philader, Street, City, State, and ZIP Code		Telephone Number for Information	1:	17
P.6-Box 1429	 -	(714) 822-3758		
		Date Prepared	1	70:
2660 W. Alder		Sgratus of Properer (options)	7.55	
Rialto, Ca. 92376	ž.	SQUARE OF THE PARTY		_کین_
Section II — Hazardous Ingredients/Identi	ity informatio	n		
Hazardous Components (Specific Chemical Identity; O	ommon Meme (d)	ACREMITLY	CAS 4-	
Cupric Oxide		1 mg/H ³	1317-38-0	<u> </u>
Dextrin		0.5 mg/H3	7778-50-9)
Potassium Dichromate			7778-74-7	
Potassius Perchlorate	<u></u>	5 mg/M ³	1110-14-	
Red Gue		5 mg/K ³	68441-58	-7
Superchlon CL		15 mg/N ³	7704-34-	9
Sulfuz				
	· · · · · · · · · · · · · · · · · · ·			
Section III — Physical/Chemical Characte	eristics		·	
	eristics	Specific Gravity (NgO = 1)	·	W/A
Boileg Point .	H/A	Specific Gravity (H ₂ O = 1) Melling Point		W/A
Boiling Point		<u> </u>		
Boiling Point	H/A	Melling Point		
Boiling Point Vepor Pressure (nm Hg.) Vepor Density (AIR = 1) Solution in Water	W/A	Melting Point Evaporation Rate		H/A
Policy Point Vapor Pressure (cm Hg.) Vapor Density (AIR = 1) Schülity in Water Hodexate	M/A M/A	Melting Point Evaporation Path (Sutyl Acetale = 1)		H/A
Boiling Point Vapor Pressure (non Hg.) Vapor Denety (AIR = 1) Solubility in Water Hoderate Appearance and Odor Brown Gramular	M/A M/A Powder, Od	Melting Point Evaporation Path (Sutyl Acetale = 1)		H/A.
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Appearance and Odor Brown Gramular Section IV — Fire and Explosion Hazard Flush Point (Method Uped) K/A	M/A M/A Powder, Od	Melting Point Evaporation Path (Sutyl Acetale = 1)	LE.	N/A N/A
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antitay	Unstable	1_	Conditions to Avoid				
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competibility	(Materials to Avoid	Un	known				-
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exerciona olymerication	May Occur	1	Conditions to Avoid				_
	Will Hot Cocor	x	 				
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	- Health Hazard						
cuto(s) of Entry	g · · an	X Sont		Sign 7		ingretion?	•
	(Acute and Chronic)						
Dunt 1	toxic. NI	dly :	<u>lrritating to ski</u>	n and qy	es. Toxic	It swallowed.	
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archogenicity:	MI	7		WIC Money	rapha?	OSHA Regula	ted?
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margancy and For eye	First Aid Procedures on, flush with	dost	er for 15 minute				
mergency and Fox eye Port alc ection VII -	First Aid Procedures First Aid Procedures Fig. 1 ash with Processions for	dont r Sati	er for 15 minutes and water. If				
For akiection VII -	First Aid Procedures First Aid Procedures Fig. 1 ash with Processions for the Case Material I	dont or Safe	er for 15 minutes and water. If s Handling and Use	sysllowe	d, consult	physician ima	distely.
Por aking to Be Table Caution	First Aid Procedures e.s. flush with Procautions for the Case Material is a large water and the case with the ca	dost Fate Vith	er for 15 minute and water. If Handling and Use ad or Spiled natural fiber b	sysllowe	d. consult	physician immo	distely.
Por akterion to Be Take Caution	First Aid Procedures e.s. flush with Procautions for the Case Material is a large water and the case with the ca	dost Fate Vith	er for 15 minutes and water. If s Handling and Use	sysllowe	d. consult	physician immo	distely.
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Por aking the post of the post	First Aid Procedures ca. flush with Precautions for the procedure of the	doar or Safe Patent Pat	er for 15 minute and water. If a Handling and Use and or Spond natural fiber be disposal. Recomming area in a disposing pyrotecting and all times. Containers with and tumbling ar	rush or ver dry ccordanc hmic mix Avoid metal peas.	d. consult broom. Avo if possible with Fede tures. Do extreme bes arts. Cond	id generating ral, State an not burn in 1 t, open flame	dust. Put in d Local regulations arge quantities.
Securely Agore Secretary Agore For aking the For aking the Court of the Take Court of the Cour	First Aid Procedures e.a. flush with In. wash with Proceditions for the Case Material I isly sweep up Irun and cove Method in appro- treme caution Taken in Heading to Avoid at in all se Control Messe clon Specify Type type of the Control Messe type of the	doar or Safe Patent Pat	er for 15 minute and water. If Handling and Use ed a Spiled natural fiber b disposal. Reco surning area in a disposing pyrotec ing ed at all times. containers with and tumbling ar	rush or ver dry ccordanc hmic mix Avoid metal peas.	d. consult broom. Avo if possible with Fede tures. Do extreme has arts. Cond	id generating ral, State an not burn in 1 t, open flame	dust. Put in d Local regulations arge quantities.
Por aki Por ak	First Aid Procedures e.a. flush with In wash with Precautions for the Material I is ly sweep up Irun and cove Method in appro- treme caution Taken in Heading to I all se In all se Control Messe clon Specify Type ipproved dust Local Educat General Mechanical (General	dost or Safe Pales with r for ved t in d ind Sio cover cover cover resp	er for 15 minute and water. If Handling and Use and Spiled natural fiber b disposal. Reco surning area in a disposing pyrotec ing and at all times. containers with and tumbling ar	rush or ver dry ccordanc hmic mix Avoid metal p	d. consult broom. Ave if possible with Fede tures. Do extreme her arts. Cond	physician immedia generating ral, State an not burn in 1 t, open flame sective floori	dust. Put in d Local regulations arge quantities.
Por aki ection VII - supe to Be Take Caution fiber of Dispose Use ext section to B Keep Ci hardir For Precaden Bettion VIII -	First Aid Procedures e.a. flush with In. wash with Precautions it in to the Material it is ly sweep up frum and cove Method in appro- treme caution Taken in Heading in Avoid at in all m - Control Measure (pproved dist Lecal Educat Mechanical (General rubber g	dost or Safe Pales with r for ved t in d and Sa cover rage ixing resp	er for 15 minute and water. If Handling and Use and Spiled natural fiber b disposal. Reco surning area in a disposing pyrotec ing and at all times. containers with and tumbling ar	rush or ver dry ccordanc hmic mix Avoid metal peas.	d. consult broom. Ave if possible with Fede tures. Do extreme her arts. Cond	id generating ral, State an not burn in 1 t, open flame	dust. Put in d Local regulati arge quantities.
Por aki ection VII - ection VII - eps to Be Take Caution fiber of Dispose Use ext ection to B Ken Ci hardir ection VIII - ection	First Aid Procedures e.a. flush with In wash with Precautions for the Material Is aweep up Irun and cove Method in appro- treme caution Taken in Heading to I all a In all a Control Messe clon Specify Type pproved dust Local Educat General Tubber g Control or Equipment	dost or Safe Pales with r for ved t in d ind Sio cover cover ixing resp	er for 15 minute and water. If Handling and Use and Spiled natural fiber b disposal. Reco surning area in a disposing pyrotecting and at all times. containers with and tumbling ar	rush or ver dry ccordanc hmic mix Avoid metal peas.	d. consult broom. Avo if possible with Fede tures. Do extreme her arts. Cond stis prese pocisi	physician imaged id generating the state and the state and the state and the state in the state of the state	dust. Put in d Local regulati arge quantities.
Por aki ection VII ection VII ection VII ection VII ection VII ection VII ber d beats Disposed i Disposed Use exi ection to B Keep co handlin her Preceden ection VIII ection	Fret Aid Procedures A. flush with Precautions for the procedures In wash with Precautions for the procedures In the Case Material is In all mapped the procedures To all mapped the procedures Control Measure Control Measure Control Measure Control General Recharical General Tubber g	dost or Safe Parameter Parameter Viet for for ved to fin do and So cover prace ixing resp ork cover	er for 15 minute and water. If Handling and Use and Spiled natural fiber b disposal. Reco surning area in a disposing pyrotec ing and at all times. containers with and tumbling ar	rush or ver dry ccordanc hmic mix Avoid metal peas. where de	broom. Avo if possible with Fede tures. Do extreme has arts. Cond st is prese possi	physician image id generating ral, State am not burn in 1 t, open flame sective floori	dust. Put in d Local regulati arge quantities. s and rough ng and footwear

Material Safety Data Sheet		Occupational Safety and Health A	dministration	
the beared to correctly with		(Non-Mandetory Form)		~
OSHA's Hezard Communication Standard,		Form Approved		
29 CFR 1910.1200. Standard must be consulted for specific requirements.		ONR No. 1218-0072		
DESTITY (he bleed on Label and Link) RED COLOR		Nose: Blinsk species are not peopled. Intermetion is available, the speci	If any been is seet application in	able, or so dicate Stat.
			15%	 .
Section 1		Emergency Telephone Number		
Maradicture's Norme CELEBRITY FIREWORKS, INC.		(714) 822-3758	[2]	المحدوثة الم
Address Phinder, Street, City, State, and ZIP Codej		Telephone Number for Information	- Aug	7
P.O.Box 1429		(714) 822-3758	17 1:4	4322
	•	10/15/86	HE	
7860 N. Alder	8	Signature of Preparer (springs)	(a)	**************************************
Rialto, Ca. 92376		<u> </u>	TEV T	rizi1)
Section II — Hazardous Ingredients/Idea			CAS #	•
Hazardous Corsponents (Specific Charactel Identity)	Common Name()	ACGIH TILV	CAS Y	
Charcoal				
Dextrin		5 mg/H ³	7778-74-	7
Potaggine Perchlorate				
Led Gum				
Strontium Carbonate				e
·		·		
Section III Physical/Chemical Charac	cteristics			
Boiling Point	_	Specific Gravity (HgO = 1)		W/A
	X/A	Melting Point		
Vapor Pressure (mm Hg.)				14/4
Vapor Density (AIR = 1)		Everoration Rate (Butyl Acetate = 1)		<u> </u>
. 11-1	N/A			
Scholly in Weier Hoderate				· · · · · · · · · · · · · · · · · · ·
Appearance and Odor	<u> </u>		·	
Section IV — Fire and Explosion Haza	rd Data		I LEL	l ua.
Charles Blethod Unid		Paremetrie Limite 11/A	١٣٠	1
- a/A				
Extrapolating Media NORE				
Special Fire Fighting Procedures DO NOT TRY TO EXTINGUISH	lear the a	rea and allow to burn.	Mixture suppl	ies its
own oxygen to feed the fire.		<u> </u>		
Can be ignited by spark, III	ction or i	mpact. Containers of bu	lk meterial m	ay explode
under fire conditions. Fini	ished dry s	tars are more hazardous	than bulk pow	Mer KOMA 174 Roma Y
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Section V	Reactivity Data	l			
Statutor	Urantile	T	Conditions to Avoid heat. flam	e. inpact	or electric sparks,
	Stable		A CALL		
incompetibility (Vaterials to Avoid)	unl	nova.		,
lazardoua Decos	spowten or Byprode	Ects H	dorchloric Acid		and the second
TOXIC SHOK	<u>r nay contai</u>	H; O:	cides of Carbon, Oxides	of Chlorin	e, Oxides or nydrogen
fezerdowe Potyenedzellon	May Doors		CONDICTS & MICE		
	AMI Not Occur	X			
	Health Hezard	=			L
Routepy of Entry:	interi.	indon'i	51 4 17		ingerios?
louis Hazarda P	Looks and Chronici	41-	rritating to skin and e	ves. Toxi	c if swallowed.
DRAT_18	TOTICA BLA	¥.1.3	TTT-THE TA SECTION	<u> </u>	
Carcinopenicine	MIF	7	IARC Mon	graphs?	OSHA Requisited?
not fou	nd				
Stone and Sympt	ods of Exposure	5kin	and eye redness.		
Medical Consider	is sted by Exposure		unknown		
preparcy and F	inst Ald Procedures				
For eye	<u>s, flush yit</u>				persists, get medical attention
<u>For aki</u>	n. vash with	101	and water. If swallow	ed, consul	t physician immediately.
- A D 7-1-	- In Come Street S	سملسو	Handling and Use		
Caution	ely sycap be	wit	natural fiber brush or	broom. /	woid generating dust. Put in
fiber d	rum and cove	r fo	disposal. Recover dr	if possil	ole
Neste Eksposel M	lethed	ved 1	wrning area in accorda	ce with Pe	ederal, State and Local regulat
					Do not burn in large quantities
Use ext	Taken in Hending	and Sk	des	LACUIGA	PO DOC DATE OF STREET
Keep_co	ol dry and	COYE	ed at all times. Avoi-	extreme	heat, open flames and rough
handlin					onductive flooring and footwear
Other Preceution	in all	ixin	and tumbling areas.		•
	- Control Mees				
		Tea	irator in areas where		esent.
Vocation	Local Exhaust	ener	al room ventilation	Special	
ľ	Mechanical (General			Other	
Protective Gloves		1	Eye P	rotection	foto classes
	rubber g		<u> </u>	291	ety glasses
Full co	Cothing or Equipment of Control o	ork_i	lother in mixing and t	umbline at	FRA
			_		lation of dust or residue.
_Good_bo	HECKECOINE S		Page 2		+ USAPO: mm-491-323/A3773

Naterial Safety Data Sheet		U.S. Department of Labor	7 °		
les he used in comply with		Occupational Safety and Health Administration (Non-Mandatory Form)			
SHA's Hazard Communication Standard,		Form Approved			
9 CFR 1910,1200. Standard must be provided for specific requirements.		OMB No. 1218-0072			
EMITTY (for Used on Label and Ling) ALUTE OR ARTILLERY POWDER		Nosc Black spaces are not paralled. Internation is evaluate, the space	any ham is not of most to medical	pitable, or so to indexto that	
ection I			611.		
andschee's Name		Emergency Telephone Number	150		
CELEBRITY FIREWORKS, IEC.		(714) 822-3758	()		
Minute (Phinties, Street, City, State, and ZIP Code)		Telephone Number for Information	. Air	1	
P.O.Box 1429		(714) 822-3758	Links	27.5	
•		10/15/R6	T WE	7.7.7	
78AG W. Alder		Signature of Propurer (systems)	B. C. Y.	nces	
Rialto, Ca. 92376	<u> </u>		18:7	400	
ection II — Hazardous ingredients/identity	ntonnetk			31/2	
ezardoùs Components (Specific Chevrical Edunity; Comm	on Home(4)	ACGIH TLV	CAS #	1	
lustrius		10 mg/H	7429-90		
Potassium Perchlorate		5 mg/H ¹	7778-74	<u>-7</u>	
ection III — Physical/Chemical Characterist	ice				
alian Point	H/A	Specific Gravity (11 ₂ O = 1)	· .	¥/A	
apor Pressure (com Hg.)		Melting Point		W/A	
	N/A	Evaporation Piele			
spor Density (AIR = 1)	W/A	(Butyl Acetate = 1)			
okelity in Water Hoders te				•	
ppearance and Odox Silver Gray Powder,	Waxy Od	OT			
ection IV - Fire and Explosion Hazard De	ta				
insh Point (Method Uped)	·····	Flammatile Umits	1.EL	ÜEL	
man a series de la comunicación de					
' B/A					
dequisting Media		N/A			
MA MORE Pocial Fire Fighing Procedures DO NOT TRY TO EXTINGUISH Clear	the are		Lxture supp	lies its	

Preproduce locally!

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Badaa V	One-that: Date		 		
	Reactivity Date		Conditions to Avoid		
Stability	Unstable	l x	heat, flam	e, inpact or ele	etric sparks.
	Stable	1			
Incompatibility (Visterials to Avoid)	nn!	DOVA		
Maranian Daces	nomition or Beared	erta Hy	drochloric Acid		
TOXIC SHOW	MAY CONTAI	N Ox	ides of Hydrogen, Uxide	of Chlorine, H	ydrogen Gas
Hazardous Pokroestzalou	May (Door	1.	Consistons to Avaid		
Lohumon	Will Not Occur	_x			
Bootles VI	Health Hazard	ــــــــــــــــــــــــــــــــــــــ			
Routebo of Entry		plonf	647		ingretion?
Doat is	toxic. Nil	dly.	rritating to skin and e	res. Toxic if	swallowed.
	•			•	
					<u> </u>
Caromoganicies	NIT	7	WRC Mon	graphs?	OSHA Regulated?
not fou	nd				
Signs and Sympl	one of Posteria				
SOL TO SUL		Skin	and eye redness.		· · · · · · · · · · · · · · · · · · ·
			<u> </u>		
Medical Condition Generally Approv	al ated by Personal		unknown		
For eye		h va			ists, get medical attention
For ski	n. wash with Precentions &	or Saf	and water. If swallow Handing and Use	ed cousait bay	SICIAL ISBOULECELY.
- 4 D. T.	المستعدد مستحاسا	n Dales	and or Scillari		constraint dust But in
					generating dust. Put in
fiber d	rum and cove	r for	disposal. Recover dr	if possible.	
Wasts Disposal N Dispose	of in appro	ved	ourning area in accordan	ce with Federal	l, State and Local regulation
Use ext	reme caution	in	lisposing pyrotechnic m	xtures. Do no	t burn in large quantities.
Description to Bu	Taken in Handling	and Su	rino		
Keep co					open flames and rough
handlin	e. Avoid at	OTER	conteiners with metal	parts. Conduc	tive flooring and footwear
Other Preceutions	in all a	IXID	and tumbling areas.		•
Section VIII -	- Control Mess	Lifes	·		
Peerbyky Prote	ction (Specify Type)	Tes	pirator in areas where	dust is present	
	Local Edward		7.1.1.41 32 42.41	Special	
Ventilation			I Toom ventilation		
ſ	Machanical (General	4		Other	·
Protective Gloves	rubber 8	1000	Eye P	ometion safety :	lasses
	Tubber a Nothing or Equipme		<u> </u>		
Pull co	VET COLLOR Y	nork_	lothes in mixing and t	unhling areas.	
	- 				on of dust or residue.
Good_bo	DECKEEDINE S	4 0 E (1	Page 9		- MARPO- STATE AND AND TO

Material Safety Data Sheet
May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200, Standard must be
consulted for specific requirements.

U.S. Department of Labor *
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved



Isufied for specific requirements. SYTTY (for Used on Label and List)		OMB No. 1218-0072		
		Hote: Black spaces are not parelled biomedion is evaluable, the spe	. If any here is not explicate any in the second to a special to a special to be	cathle, or sec scionly that,
LASH BAG POVDER		State of Participation of the		
ection (<u></u>	
radachara's Narae		Emergency Telephone Number	B Com	
CELEBRITY FIREWORKS, INC.		(714) 822-3758 Telephone Number for Interestion		
dress Phinties, Street, City, State, and ZP Cooks		(714) 822-3758	AUG 18	~~~
P.0-Box 1429		Date Propered		
•		10/15/86		
7440 W. Alder		Eignature of Preparer (spoons)		13 (3)
Risito, Ca. 92376	3,		रिंडा	181
ection II — Hazardous Ingredients/Identity I	informatic	M		
exactions Components (Specific Coerrical Identity; Cores	on Neme(K)	ACGINITALY	CAS #	
		10 mg/n	7429-90-	
Aluminum Antimony Sulfide		0.5 mg/M	1315-04-	<u> </u>
	 -	0.5 mg/H ³	10022-31	8
Barium Mitrate		. 5 mg/M ³	7757-79-	1
Potassium Mitrate		5 mc/Nº	_7778-74-	
Potassium Perchlorate		15 mg/H ³	7704-34-	
Sulfur		72 -81-		
	·			
ection III — Physical/Chemical Characterist	lics			
To Brief	tics II/A	Specific Gravity (HgO = 1)		¥/A
oling Point	H/A	Specific Gravity (HgO = 1) Melling Point		7
oling Point		Melling Point		H/A H/A
oling Point	H/A			7
oling Point spor Pressure (mm Hg.) spor Density (AIR = 1)	B/A B/A	Melting Point Eveporation Rate		H/A
oling Point spor Pressure (nm Hg.) spor Density (AIR = 1) okálity in Water HoderAte	B/A B/A H/A	Melling Point Evaporation Rate (Butyl Acetate = 1)		H/A
oling Point spor Pressure (num Hg.) spor Density (AIR = 1) okality in Water Hoderate pressure and Odor Silver Gray Granula	H/A H/A H/A T Powde	Melling Point Evaporation Rate (Butyl Acetate = 1)		H/A
oling Point spor Pressure (non Hg) spor Density (AIR = 1) okality in Water Hoderate special and Odor Silver Gray Granula section IV — Fire and Explosion Hazard Da	H/A H/A H/A T Powde	Melling Point Evaporation Ratia (Dutyl Acetate = 1) ax, Vaxy Odox		H/A H/A
oling Point spor Pressure (num Hg.) spor Density (AIR = 1) okality in Water Hoderate pressure and Odor Silver Gray Granula	H/A H/A H/A T Powde	Melling Point Evaporation Rate (Butyl Acetate = 1)	US.	H/A
oling Point spor Pressure (non Hg) spor Density (AIR = 1) chally in Water Hoderate speerance and Odor Silver Gray Granula section IV — Fire and Explosion Hazard Da	H/A H/A H/A T Powde	Melting Point Eveporation Rate (Butyl Assiste = 1) Xx, Vaxy Odox Flammable Limits	UE.	H/A H/A
oling Point spor Pressure (non Hg) spor Density (AIR = 1) oldsity in Water Hoderate preserve and Odor Silver Gray Granula section IV — Fire and Explosion Hazard Da but Point Glethod Upod) M/A scriptisting Media	R/A R/A X Powde	Melling Point Eventuation Rate (Butyl Acetate = 1) X., Vaxy Odox Flammable Limits X/A		H/A
oling Point spor Pressure (ren Hg) spor Density (AIR = 1) Okality in Water Hoderate preserve and Odor Silver Gray Granula Section IV — Fire and Explosion Hazard Da but Point Glashod Uped) M/A	R/A R/A X Powde	Melling Point Eventuation Rate (Butyl Acetate = 1) X., Vaxy Odox Flammable Limits X/A		H/A
oling Point spor Pressure (non Hg) spor Density (AFR = 1) obtailty in Water Hoderate pressures and Odor Silver Gray Granula Section IV — Fire and Explosion Hezard Da san Point Glashod Upod) M/A sangularing Macha Poccial Fire Fighting Procedures DO HOT TRY TO EXTINGUISH Clear	R/A R/A X Powde	Melling Point Eventuation Rate (Butyl Acetate = 1) X., Vaxy Odox Flammable Limits X/A		H/A
oling Point spor Pressure (non Hg) spor Density (AIR = 1) oldsilly in Water Hoderate pressure and Odor Silver Gray Granula section IV — Fire and Explosion Hazard Da but Point Glethod Upod) M/A structuring Media NONE point Fire Fighting Procedures DO HOT TRY TO EXTINGUISH Clear own oxygen to feed the fire.	H/A H/A T Powde	Melling Point Eveporation Ratin (Butyl Assists = 1) Ar, Vaxy Odor Flammable Limits H/A rea and allow to burn,	Mixture suppl	H/A
oling Point spor Pressure (non Hg) spor Density (AIR = 1) oldsilly in Water Hoderate pressure and Odor Silver Gray Granula section IV — Fire and Explosion Hazard Da but Point Glethod Upod) M/A structuring Media NONE point Fire Fighting Procedures DO HOT TRY TO EXTINGUISH Clear own oxygen to feed the fire.	H/A H/A T Powde	Melling Point Eveporation Ratin (Butyl Assists = 1) Ar, Vaxy Odor Flammable Limits H/A rea and allow to burn,	Mixture suppl	H/A
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<u> </u>					
Section V -	Reactivity Date				
Bushiller	Unetable	T	Conditions to Avoid		
		X_	heat, fla	me, inpact or el	ectric sparks.
	Stable	<u> </u>			
	Listeriets to Avoid)		LDOWR	AND HVOTO	chioric Acid, Uxides of Anti
Hazardous Decon	npoettan ar Byprodi		xides of Hydrogen, Bydi xides of Nitrogen, Oxid	togen out, nyaro	Orides of Sulfur
Hazardous	May Door	1	Conditions to Avoid	ies of dataras,	
Polymerization.	Will Not Occur	x			
Section VI -	Health Hazard	Deta			
Proute(s) of Entry:	hite	ycont	Sipf		keyetasi
Health Hazards (Acute and Chronic)	41	rritating to skin and	eves. Toxic if	awallowed.
<u>Dust is</u>	• •	OLY .	THE COURT OF THE PARTY AND THE	<u> </u>	
					•
	MTP	7	MAC No	nographs?	OSHA Regulated?
Cardinogenicity: not fou			<u> </u>		
	<u> </u>				
Signs and Symp	tome of Exposure	Skin	and eye redness.		
Medical Condition	me	·-	unknown		
Generally Aggre	ested by Exposure				
For eve	Pirat Aid Procedures	h ya	ter for 15 minutes. If	f irritation per	sists, get medical attention
Por eki	m. wash with	BOA	p and water. If swalle	owed, consult pl	ysician immediately.
Section VI -	Precautions N	or 6ad	a Handling and Use		
				or broom. Avole	generating dust. Put in
#iber d	Tun and cove	r fo	r disposal. Recover d	ry if possible.	
Tiper					
Whate Disposal	Hethod	ved	burning area in accord	ance with Feder	al, State and Local regulat
Dispose	of IR abbit		diannaire protechnic	mixtures. Do n	ot burn in large quantities
			<u> </u>		•
Kenn Ci	ool, dry and	COVE	red at all times. Ayo	id extreme beat	, open flames and rough
handli	. Avoid at	orag	e containers with meta	1 parts. Condu	ctive flooring and footwear
Other Procession	s in all s	dxin	g and tumbling areas.		•
 					
	- Control Meas				·
Section Vill	ection (Novoly Type)			- d	
Hiosh		res	pirator in areas where	Special Special	
Ventistion	Local Edward	Эс дет	al room ventilation	орили	
ļ	Mechanical (Genera	4		Other	
Protective Glove	rubber (1000	Eye	Protection	glasses
Char Paradha	Coston or Found	ri.			
Full c	<u>ovez catton</u> i	OTK.	clothes in mixing and	tumbling areas	<u> </u>
Yorkeltyglenic P	ractions	ARET	tial. Keep area free	from accumulat	ion of dust or residue.
Good_b	ORBEKEENTHK		Page 2		+ #4 # P.D. 1985-401-529/45773

Material Safety Data Sheet
May be used to comply with
OSHA's Hazard Connounication Standard,
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor *
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMP No. 1218-0072



wanted for abecare techniques	UMB RB, 1216-0074		
MEMITTY OF the contact and the TITARIUM ARTILLERY	Notic Blank special are not permitted information in available, the ap-	i, if any bure is not acc	Mosble, or so Judicele that,
ection (
enutectorer's Name	Emergency Telephone Number	Br.	
CELERRITY FIREFORKS, INC.	(714) 822-3758	/-/	
citizen Philippine, Street, City, State, and ZIP Code)	Telephone Number for Information (714) 822-3758	AUGZ	
P.0:Box 1429	Date Prepared	-1 /in-	19.7
•	10/15/85	EN TO SERV	ب باداة
7640 N. Alder	Signature of Preparer (Spitmes)	LY sevi	CES .
Rialto, Ca. 92376			- (\?)
ection II — Hazardous Ingradients/Identity Information	<u> </u>	<u> </u>	
		CAS +	-
Inzardose Componente (Specific Cherrical Identity; Common Nemetal)		7429-90	-5
Aluatium	10 mg/M ³		
Potassium Perchlorate	5 mg/H ³	7778-74	<u>-/</u>
	10 mg/N ³	134-636	-77
Titaning			
	•		
	·		
			
•			
Section III Physical/Chemical Characteristics	10 0- 5-040-9		
oolling Point	Specific Grantly (HgO = 1)		H/A
#/A	1		
Appor Pressure (san Hg.)	Melling Polisi		N/A
	Everoration Pate		
Appor Density (AIRI = 1)	(But) Acutate = 1)	•	N/A
			•
Bokeliby in Water Hoderate			•
operance and Odor	New Mor		
Silver Gray Granular Powder	THAY WAY		
Section IV — Fire and Explosion Hazard Data			1 : 100
Resh Point (Method Upod)	Florometrie Limits	LEL.	UEL.
N/A N/A	H/A		
Extrapolating Made	•		
NORE			
	<u> </u>	***	14 4
Special Five Fighting Procedures DO HOT TRY TO EXTINGUISH Clear the are	a and allow to burn.	urzenie enbb	1168 168
DO BAT THE TA PARTY			
own oxygen to feed the fire.			
Invest Fire and Espicator Hexards	ack Compelators of h	ilk material :	nav explode
Unusual Fire and Empirelian Harmeds Can be ignited by spark, friction or imp	Sect. Coursiners of pr	P	
under fire conditions. Finished dry sta	ILS SLE MOLE HETELGORE	TOTE DO	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Reproduce locally)			

Stability .	Linetable	7	Conditions to Avaid	
		<u> </u>	hest, flam	e, inpact or electric sparks.
	Stable		, , <u>, , , , , , , , , , , , , , , , , </u>	
	(Ataiorials to Avold		CDOWN	
Hezardous Dec	composition or Bypro-	tucis Hy	drochioric Acid	of Hydrogen, Hydrogen Gas,
TOXIC SHO	May Occur	101.07	Conditions to Avoid	
Polymetzation	Wit Not Occur	┼		
		_ <u>x</u> _		
	— Health Hazzr		01-0	Prologe
Route(d) of Ent	inja - Inf	Tachair X	**************************************	
Heelth Hazards Durat, d	(Acute and Chronic)	ldly	irritatine to skin and i	res. Toxic if sysllowed.
				OS-A Requisted?
Carcinopecicity		P	WRC Mix	OCHANICA CONTRACTOR
not fo				
Signe and Sur	aptorns of Exposure	Shin	and eye redness.	
				•
Alackard Care				
Medical Condi Generally App	consisted by Exposure		unknown	
			•	
	_			
Energency an	d First Ald Proceeds	8	eer for 15 winntes. If	irritation persists, get medical atten
Por e	ves. flush Y1	ID YA	ter for 15 minutes. If	irritation persists, get medical atten
Por_e	<u>yes, flush yi</u> Lin, yash wit	tn wa h aoa	n and water. If swalle	irritation persists, get medical atten
For a Section VII	yes, flush yi kin. yash yii Precsutions	h sos for Sa	n and water. If swallo	wed, consult physician imagdiatery.
For a Section VIII	yes, flush vi tin, yesh vif 	h non for Sa le Relea	n and water. If swallo be Handling and Use med or Spiled h natural fiber brush o	r broom. Avoid generating dust. Put in
For a Section VIII	yes, flush vi tin, yesh vif 	h non for Sa le Relea	n and water. If swallo	r broom. Avoid generating dust. Put in
For a Section VII Shops to Be To Cauti	yes, flush vi kin, wash wif I Procestions then in Case Meters ously sweep to drum and cov	h sos for Sa in Release in vit	n and water. If swalle to Handing and Use med or Spiled h natural fiber brush o r disposal. Recover dr	r broom. Avoid generating dust. Put in
For a Section VII Shops to Be To Cauti fiber Waste Dispose	yes, flush vi kin, wash wif - Precentions when in Case Materia ously sweep y drum and cov	h son for Smile in Release yer for	n and water. If swallo be Handling and Use said or Spiled h natural fiber brush o r disposal. Recover dr burning area in accords	r broom. Avoid generating dust. Put in y if possible.
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For a Section VII Shops to Be To Cauti fiber Waste Dispose Dispo Use e	yes, flush vi kin, wash wif - Procestions wash to come Materia ously sweep w drum and cov at Material se of in approximation	h soa for Sa: le Release p wit ver fo	n and water. If swallo be Handing and Use med or Spiled h natural fiber brush o r disposal. Recover dr burning area in accordance disposing pyrotechnic s	r broom. Avoid generating dust. Put in y if possible. unce with Federal, State and Local regulatures. Do not burn in large quantit
For a Section VII Suppose to Be To Cautifiber Waste Obspose Dispose Dispose to Be To Cautifiber The Cautifibritation The Cautifiber The Cautifibritation The Cautifiber The Cautifiber The Cautifiber The Cautifiber The Cautifiber The Cautifiber The Cautifibritation The Cautifibritation The Cautifibritation The Cautifibritation The Caut	kin, wash wift - Procestions when in Cose Meters ously sweep u drum and cov at Method use of in appr extress cautic by Be Talan in Handle cool, dry and	th soa for Satisfier Satis	n and water. If swalle to Handing and Use med or Spiled h natural fiber brush or disposal. Recover dr burning area is accorded disposing pyrotechnic standard at all times. Ayoned at all times.	r broom. Avoid generating dust. Put in y if possible. unce with Federal, State and Local regulatures. Do not burn in large quantit
For a Section VII Shops to Be To Cautifiber Waste Ciscon Dispose Dispose to Keep handl	kin wash wift - Precautions then in Case Materia ously sweep to drum and cov at Mathod use of in appr actreme cautic be Taken in Handle cool, dry and	h son for Smile Pelever for the Pelever for th	n and water. If swalle to Handing and Use med or Spined h natural fiber brush or disposal. Recover dr burning area in accordadisposing pyrotechnic swing red at all times. Ayone containers with mate	r broom. Avoid generating dust. Put in y if possible. Ince with Federal, State and Local regulatures. Do not burn in large quantit descriptions. Open flames and rough parts. Conductive flooring and foots
For a Section VII Suppose to Be To Cautifiber Waste Obspose Dispose Dispose to Be To Cautifiber The Cautifibritation The Cautifiber The Cautifibritation The Cautifiber The Cautifiber The Cautifiber The Cautifiber The Cautifiber The Cautifiber The Cautifibritation The Cautifibritation The Cautifibritation The Cautifibritation The Caut	kin wash wift - Precautions then in Case Materia ously sweep to drum and cov at Mathod use of in appr actreme cautic be Taken in Handle cool, dry and	h son for Smile Pelever for the Pelever for th	n and water. If swalle to Handing and Use med or Spiled h natural fiber brush or disposal. Recover dr burning area is accorded disposing pyrotechnic standard at all times. Ayoned at all times.	r broom. Avoid generating dust. Put in y if possible. unce with Federal, State and Local regulatures. Do not burn in large quantit
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For a Section VII Shops to Be To Cauti fiber Waste Dispose Dispo Use e Precentors to Keep handl	kin, wash wif - Precautions when in Cose Meteria ously sweep u drum and cov Method se of in appr extreme cautio Be Taken in Hands cool, dry and fore in all	h son for Sale in Release point of the Property of the Propert	n and water. If swalle to Handing and Use med or Spined h natural fiber brush or disposal. Recover dr burning area in accordadisposing pyrotechnic swing red at all times. Ayone containers with mate	r broom. Avoid generating dust. Put in y if possible. Ince with Federal, State and Local regulatures. Do not burn in large quantit descriptions. Open flames and rough parts. Conductive flooring and foots
For a Section VII Super to Be To Cautificate Cispos Dispos Dispos Dispos Precautors to Keep handl Other Precaut	kin, wash wif - Precautions when in Case Meteria ously sweep w drum and cov Method se of in appr extreme caution Be Taken in Handin cool, dry and ing. Avoid is fors in all	th son for Said le Release point of the Property of the Proper	n and water. If swalle to Hamsding and Use med or Spiled h natural fiber brush or disposal. Recover dr burning area is accorded disposing pyrotechnic stand red at all times. Avoid and tumbling areas.	r broom. Avoid generating dust. Put in y if possible. unce with Federal, State and Local regulatures. Do not burn in large quantit destress heat, open flames and rough parts. Conductive flooring and footw
For a Section VII Section VI	kin, wash wif - Precautions when in Case Materia ously sweep w drum and cov Mathed are of in appr extreme cautic Be Taken in Handle cool, dry and form in all - Control Mea	th son for Said le Release point of the Property of the Proper	n and water. If swalle to Handing and Use med or Spined h natural fiber brush or disposal. Recover dr burning area in accordadisposing pyrotechnic swing red at all times. Ayone containers with mate	r broom. Avoid generating dust. Put in y if possible. unce with Federal, State and Local regulatures. Do not burn in large quantit described and rough parts. Conductive flooring and footworks present.
For a Section VII Super to Be To Cautificate Cispos Dispos Dispos Dispos Precautors to Keep handl Other Precaut	kin wash wif Procestions When in Case Materia ously sweep w drum and cov at Mathod se of in appr extreme cautic Be Taken in Handle cool, dry and ing. Avoid in form in all II — Control Mea character Specty by it Approved the Local Etheust	to yat the second on in good Si coved second	n and water. If swalle to Hamsding and Use med or Spiled h natural fiber brush or disposal. Recover dr burning area is accorded disposing pyrotechnic stand red at all times. Avoid and tumbling areas.	r broom. Avoid generating dust. Put in y if possible. Ince with Federal, State and Local regulatures. Do not burn in large quantit describes. Conductive flooring and footwood dust is present. Special
For a Section VII Section VI	kin, wash wif - Precautions when in Case Materia ously sweep w drum and cov Mathed are of in appr extreme cautic Be Taken in Handle cool, dry and form in all - Control Mea	to yat the second on in good Si coved second	n and water. If swalle to Handing and Use med or Spined h natural fiber brush or disposal. Recover dr burning area in accords disposing pyrotechnic swing red at all times. Ayou a containers with matage and tumbling areas.	r broom. Avoid generating dust. Put in y if possible. unce with Federal, State and Local regulatures. Do not burn in large quantit described and rough parts. Conductive flooring and footworks present.
For a Section VII Section VI	kin, wash wif - Precautions when in Case Materia ously sweep w drum and cov at Method se of in appr extreme cautic Be Taken in Handle cool, dry and ing. Ayoid ing.	h non for Smile Release to the restree of the restr	n and water. If awallo to Handing and Use med or Spined h natural fiber brush or disposal. Recover dr burning area in accords disposing pyrotechnic suring red at all times. Ayone containers with matage and tumbling areas.	r broom. Avoid generating dust. Put in y if possible. Ince with Federal, State and Local regulatures. Do not burn in large quantit describes. Conductive flooring and footwood dust is present. Special
For a Section VII Shops to Be To Cautification Tiber Waste Obspose Dispose Dispose Brecautans to Keep handl Other Precaut Section VII Respiratory P II OSS Vantision	kin wash wif - Precautions then in Case Materia ously sweep to drum and cov at Mathod se of in appr extreme cautic be Tuken in Handle cool, dry and fing. Avoid in all - Control Mea cathon Speed did Local Exhaust Mechanical (Gara rubber	h son for Saries of the Property of the Proper	n and water. If awallo to Handing and Use med or Spined h natural fiber brush or disposal. Recover dr burning area in accordadisposing pyrotechnic soring red at all times. Avoid a containers with matage and tumbling areas.	r broom. Avoid generating dust. Put in y if possible. Ince with Federal, State and Local regulatures. Do not burn in large quantit dextreme heat, open flames and rough parts. Conductive flooring and footwood dust is present. Bracket Other Protection safety glasses
For a Section VII Shops to Be To Cauti fiber Waste Obspose Dispo Use e Precausans to Keep handl Other Precaus Vantation Protective Ge Coher Protects	kin wash wif Procestions when in Case Materia outly sweep w drum and cov at Mathod se of in appr extreme cautic Be Taken in Handle cool, dry and ing. Avoid in form in all Mechanical (General rubber rubber cover cotton	h son for Sarie le Relevant le	n and water. If swalle to Handing and Use med or Spined h natural fiber brush or disposal. Recover dr burning area in accords disposing pyrotechnic states and tall times. Ayone containers with matage and tumbling areas.	r broom. Avoid generating dust. Put in y if possible. Ince with Federal, State and Local regulatures. Do not burn in large quantit dextreme heat, open flames and rough parts. Conductive flooring and footwood dust is present. Bracket Other Protection safety glasses

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U.S. Department of Labor

Occupational Safety and Health Administration
Blon-Mandatory Form)
Form Approved



CFR 1910,1200. Standard must be		Form Approved OMB No. 1218-0072		
enged for specific technishmer.		Motor: Blank apaces are not persited. Interesting its annihilat, the apace		22
ENTITY the Lined on Label and Lind RKEN ELECTRIC COMETS		interested it available, the space	Par	<u> </u>
ection 1		Exergency Telephone Number	1	
rudichme's Name		(714) 822-3758 <u> </u>	1 700	
CELEBRITY FIREFORKS, INC. trees Phinter, Street, City, Sacia, and ZP Code		Telephone Number for Information		٠,٧٧
P.O.Box 1429		(714) 822-3758	12:	
	•	40/45/86	<u> </u>	· · · · · · · · · · · · · · · · · · ·
7AAO N. Alder	J.	Signature di Properer (cottone)	Tich	النزرا
Bialto, Ca. 92376				
ection II — Hazardous Ingredients/ide	ertory amountation	ACEST TLY	CAS P	
ezardous Components (Specific Chemical Identity	Common Name(4)		7429-90-5	
Alusinus			10022-31-	
Region Hitrate		0.5 mg/N ³	10043-35-	
Boric Acid				
Destrin		· · · · · · · · · · · · · · · · · · ·	7778-74-7	
Potassina Perchlorate		5 pg/H³		и
Red Gum		5 mg/H ³	009011-00	5-7
Saran (506) Resin		3 48/11		
	-			
	actoristics			
Section (III — Physical/Chemical Char	ectoristics	Specific Gravity (H ₂ O = 1)	· · · · · · · · · · · · · · · · · · ·	
Section (III — Physical/Chemical Char	acteristics			H/A
Section III — Physical/Chemical Char Boling Point	· R/A	Moting Poiss		H/A H/A
Section (8 — Physical/Chemical Char Boling Point Vapor Pressure (som Hg.)	1	Melting Point Eveporation Paste		B/A
Section III — Physical/Chemical Char Boling Point Vapor Pressure (mm Hg.) Vapor Density (AIR = 1)	· R/A	Moting Poiss		
	* R/A	Melting Point Eveporation Paste		B/A
Section (B) — Physical/Chemical Char Boling Point Vapor Pressure (som Hg.) Vapor Density (AFI = 1) Schbilty in Weser Hoders te	· H/A - H/A - H/A	Eveporation Paste (Butyl Acetale = 1)		B/A
Section (III — Physical/Chemical Character Point Vapor Pressure (som Hg.) Vapor Density (AFI = 1) Schbilty in Water Hoderate Appearance and Oder Gray-Pink Gray	H/A H/A M/A Anyular Powder	Eveporation Paste (Butyl Acetale = 1)		N/A N/A
Section (III — Physical/Chemical Chamboling Point Vapor Pressure (mm Hg.) Vapor Density (AFI = 1) Schality in Water Hoderate Appearance and Oder Gray-Pink Gray-Section IV — Fire and Explosion Har	H/A H/A M/A Anyular Powder	Eveporation Paste (Butyl Acetale = 1)	LEL.	B/A
Section (III — Physical/Chemical Character Point Vapor Pressure (mm Hg.) Vapor Density (AFI = I) Schlidty in Water Hoderate Appearance and Oder Gray-Pink Gray	H/A H/A M/A Anyular Powder	Evaporation Plate (Butyl Acetate = 1) c, Odoxless	ua.	N/A N/A
Section (III — Physical/Chemical Charaching Point Vapor Pressure (mm Hg.) Vapor Density (AFI = 1) Schbilty in Water Hoderate Appearance and Oder Gray-Pink Gra Section IV — Fire and Explosion Hat Pash Point (Method Uped) H/A Estinguishing Media	H/A H/A M/A Anyular Powder	Evaporation Plate (Butyl Acatale = 1) c, Odoxless Paramatile Limits	Tua.	N/A N/A
Section III — Physical/Chemical Character Pressure (mm Hg.) Vapor Density (API = 1) Schizzly in Weter Hoderate Appearance and Odor Gray-Pink Gra Section IV — Fire and Explosion Har Flesh Point (Method Uped) R/A Extinguishing Media	H/A	Evaporation Plate (Butyl Acatale = 1) c, Odoxless Parametric Limits 11/A		H/A W/A
Section III — Physical/Chemical Character Point Vapor Pressure (som Hg.) Vapor Density (AIR = 1) Solution in Water Hoderate Appearance and Oder Gray-Pink Gray- Section IV — Fire and Explosion Hat Flush Point (Method Upse) R/A Extraguishing Media	H/A	Evaporation Plate (Butyl Acatale = 1) c, Odoxless Parametric Limits 11/A		N/A N/A
Section (III — Physical/Chemical Character Point Vapor Pressure (som Hg.) Vapor Density (AFI = I) Solubility in Water Hoderate Appearance and Oder Gray-Pink Gra Section IV — Fire and Explosion Hat Flash Point (Method Upad) II /A Endinguishing Media Special Fire Fighting Procedures DO ROT TRY TO EXTINGUISH	H/A H/A H/A M/A Angular Powder zard Data Clear the angular	Eveporation Plate (State Acetate = 1) c. Odorless Planamatic Limits 11/A rea and allow to burn.	Hixture suppl	W/A W/A UEL
Section (III — Physical/Chemical Charactering Point Vapor Pressure (mm Hg.) Vapor Density (AFI = I) Soldsilly in Weser Hoderate Appearance and Oder Gray-Pink Gra Section IV — Fire and Explosion Hat Plant Point (Method Upad) II/A Extinguishing Media Special Fire Fighting Procedures DO ROT TRY TO EXTINGUISH	H/A H/A H/A M/A Angular Powder zard Data Clear the angular	Eveporation Plate (State Acetate = 1) c. Odorless Planamatic Limits 11/A rea and allow to burn.	Hixture suppl	W/A W/A UEL
Section (M — Physical/Chemical Character Point Vapor Pressure (mm Hg.) Vapor Density (AFI = I) Solutility in Water Hoderate Appearance and Oder Gray-Pink Gray Section IV — Fire and Explosion Haracter Holerater H	E/A B/A B/A B/A B/A B/A B/A B/A	Eveporation Plate (State Acetale = 1) C. Odorless Planamatic Limits 11/A rea and allow to burn. mpact. Containers of b	Mixture suppli	W/A W/A UEL les its
Section (B) — Physical/Chemical Character Point Vapor Pressure (som Hg.) Vapor Density (AFI = 1) Solubility in Weser Hoderate Appearance and Oder Gray-Pink Gra Section IV — Fire and Explosion Hat Flash Point (Method Upad) R/A Extinguishing Media BONE Special Fire Fighting Procedures DO ROT TRY TO EXTINGUISH	E/A B/A B/A B/A B/A B/A B/A B/A	Eveporation Plate (State Acetale = 1) C. Odorless Planamatic Limits 11/A rea and allow to burn. mpact. Containers of b	Mixture suppli	W/A W/A UEL les its

Luckan M	Reactivity Dat				
	Unstable	-	Conditions to Avaid		
			best	, {lame.	, inpact or electric sparks,
	Statio	1			
competibility (Materials to Avoic	9	ChoVa		
•			Idea of Barium, H	ydrogen	of Nitrogen, Oxides of Chlorine
lezardous Deco	THE PROPERTY OF THE PROPERTY.	TH: Ox	ides of Hydrogen,	0xides	of Nitrogen, Oxides of Chlorine
mardous Symerizados	May Dook		Conditions to Avoid		
	WE Not Occur	X			
ection VI -	- Health Hazar	d Duta	·		\$nogestors?
touteon of Entry		X		EN T	
teath Hazaria	Acute and Chronic	,,,,		and ex	yes. Toxic if swallowed.
Dust_i	<u>toxic</u>	TOTA	THE PARTY NAMED IN		
	•				
~ ·				MRC Monog	oraclas! OSHA Requisited?
Carchogeniche not for		IP† 			
BOL TO					
Class and Rette	torse of Exposure		and eye redness.		
		SKIII	and aye remains		
Medical Condi	one wated by Exposure		anjenowa		
General AGG	<u> </u>				
	First Ald Procedur				ent medical attention.
Fuederch er	es, flush V	th ve	ter for 15 minute		irritation persists, get medical attention.
ر	de week wit	th dos	p and water. If	swallow	yed, consult physician immediately.
Cartles VII	Precedition	for St	fe Handling and Use		
Shape to Be To	me in Case Materi	d & Pole	esed or Spiled th natural fiber b	rush or	r broom. Avoid generating dust. Put in
		*	or disposal. Reco	ver dry	y if possible.
fiber	drum and co	AET TA	A MISPOSEIN		
Waste Dispose	Market				
Dispos	e of in app	roved	burning area in a	ecordan	nce with Federal, State and Local regulation
lise e	ctreme cauti	on in	disposing pyrote	chnic =i	ixtures. Do not burn in large quantities.
Precautions to	Be Taken in Hendi	ng sad t	Horing		d outrome heat, open flames and rough
Keep_	1	M COV	ered at all times	ATUL	d extreme heat, open flames and rough
handl	ing. Ayoid	stora	ee containers wit	h metal	parts. Conductive flooring and footwear
Other Precede	oms in all	. mixi	ng and tumbling a	reas.	·
Section VI	- Control M		· · · · · · · · · · · · · · · · · · ·		
Respirator P	Ybbrbased green processing	ist re	spirator in areas	where	dust is present.
Ventileton	Local Exhaust		ral room ventilat		Special
	Mechanical (Ge	<u></u>	TAT TOOM TENENTS		Other
	<u> </u>			Eve P	Protection
Protective Gio	I MODE.		·e8		safety glasses
Other Protect	re Cluthing or Equit	ment	-lathar 44-4-	ne sad •	tunhling areas.
	cotto) VOI	clothes in mixin	<u> </u>	
Cood	housekeepini	<u> </u>	ntial, Keep are	a free f	from accumulation of dust or residue.
	-			Penn 2	

Material Safety Data Sheet Any be used to comply with DSHA's Hazard Communication Standard, 29 CFR 1910.1200, Standard must be consulted for specific requirements.		U.S. Department of Labor * Occupational Safety and Health Admini (Non-Mandatory Form) Form Approved OMB No. 1218-0072		
DESTRICT PAR Used on Label and Ling CREER HACHESIUM		Hose: Blank spaces are not parelited. If any information is available, the apace real	burn in not applicable the marked to indica	nto Start
Section I		·	Service Contract	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Manufacturur's Haras		Emergency Telephone Number	· · · · · · · · · · · · · · · · · · ·	<u></u>
CELUBRITY PIREVORES, IEC.		(714) 822-3758 Telephone Number for Information		$\overline{\cdot}$
Address Planther, Street, City, State, and ZP Cooks		(714) 822-3758		
P.O.Box 1429		Date Prepared		
7AAO H. Alder	<u></u>	30/15/86 Storeture of Proposer (toplicate)		
Rialto, Ca. 92376	<u> </u>			11
Section II — Hazardous Ingredients/Identi	ty informatic	<u> </u>		
Hazardous Components (Specific Chemical Identity; Or	mmon Neros(s)	ACGRI TLY	CAE #	
		0.5 mg/H ⁵	10017-31-8	
Barium Hitrate				
Boric Acid Charcoal				
Dextrin		_		
Magnesium Aluminum Alloy		5 mg/lf ³	7778-74-7	
Potaggium Perchiorata				
Red Gun		5 mg/H ³	68441-58-	7
Superchlon CR				
Section III — Physical/Chemical Characte	eristics	Specific Gravity (HgO = 1)		
Boiling Point	M/A	Nating Point		M/A
Vapor Pressure (mm Hg.)	N/A			H/A
Vapor Density (AIR = 1)	N/A	Exeparation Pate (Bulyl Acetata = 1)		M/A
Solubility in Water Hoderate				
Appearance and Odor Rycosm Gray Granul	er Powder	Morless		
Section IV — Fire and Explosion Hazarr	Date			
Flesh Point (Method Upod)		Flavornettie Limits	LEL	UEL

own oxygen to feed the fire.
Unusual Fire and Explosion Hazards

(Reproduce locally)

Special Five Fighting Procedures
DO NOT TRY TO EXTINGUISH. Clear the area and allow to burn. Hixture supplies its

under fire conditions. Finished dry stars are more hazardous than bulk possiar.

Can be ignited by spark, friction or impact. Containers of bulk material may explode

N/A

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	14	-	Conditions to Avoid	
	Unetable	l x	heat. flame.	npact or electric sparks.
•	Stable			
nempethalty &	deterials to Avoid	•		•
			chown	ltrogen, Oxides of Barium, Oxides of
cardous Decor	NA CURLY	IN H	drogen. Oxides of Chlorine.	Hydrochloric Acid, Hydrogen Gaz
cardous	May Occur	T	Conditions to Avoid	
plysmurization	Will Not Occur	×		
	Mark Name	خلا	<u> </u>	
ection VI — which of Empr	Health Hazan	Tripping 1	Skp?	legeston?
anith Hazarda (Acute and Chronia) 141-	irritatine to skin and eyes	Toxic if swallowed.
Dost 11	TOXIC: NA	·		
				•
		[P7	MRC Moregrap	NOT OSHA Proprieted?
not fou			<u> </u>	
home and Sheet	care of Exposure	61. 3	and eye redness.	
		2K11	and eye recited	
declari Condito	ns.		unknown	
arrendy Approx	ested by Exposure			
Emergency and	First Aid Proceeding	= ith w	ter for 15 minutes. If in	citation persists, set medical attention
PHIER				
			and mater. If swallowed	consult physician immediately.
	n. wash wil	th so	p and water. If swallowed	consult physician immediately.
For ski Bection VII -	n wash will - Preceutions	tor S	to and water. If swallowed to Handling and Use	consult physician immediately.
For ski Bection VII -	n wash will Precautions	tor S	to and water. If swallowed to Handling and Use	consult physician immediately.
For alci Bection VII - Baps to Be Tale Cantilos	n wash will Processions on in Case Materia saly sweep 1	for Se to Relate to Relate	ne and water. If swallowed de Handing and Use and or Spied th natural fiber brush or b	room. Avoid generating dust. Put in
For alci Bection VII - Baps to Be Tale Cantilos	n wash will Processions on in Case Materia saly sweep 1	for Se to Relate to Relate	to and water. If swallowed to Handling and Use	room. Avoid generating dust. Put in
For aki Bection VII - Baps to Be Tele Caution fiber (Precautions on h Case Materially sweep to	tor So tor So to Rose ap vit rer fo	to and water. If swallowed the Handing and Use seed or Spied th natural fiber brush or box disposal. Recover dry i	room. Avoid generating dust. Put in
For aki Bection VII - Baps to Be Tele Caution fiber 6	Processions on h Case Materially sweep ! irum and col	tor Salab Pale ap with rer forest	to and water. If swallowed the Handing and Use and or Spied the natural fiber brush or box disposal. Recover dry in burning area in accordance	room. Avoid generating dust. Put in possible. with Federal, State and Local regulat
For aki Section VII - Baps to Be Tele Cantion fiber (Wasse Dispose Dispose Tage ax	Precautions on h Case Manda saly sweep tirum and cou Method s of in appl	th sold in Role in will rear for roved	to and water. If swallowed the Handing and Use and or Spied th natural fiber brush or box disposal. Recover dry i burning area in accordance disposing pyrotechnic mixt	room. Avoid generating dust. Put in possible. with Federal, State and Local regulat
For aki Section VII - Emps to Be Tele Cantion fiber (Muse Dispose Dispose Use ax	Processions on h Case Manningly sweep to irum and com Mothed a of in appli	for Side in Poles of the Poles	to and water. If swallowed the Handing and Use and or Spied the natural fiber brush or box disposal. Recover dry i burning area in accordance disposing pyrotechnic mixt	room. Avoid generating dust. Put in f possible. with Federal, State and Local regulatures. Do not burn in large quantities
For aki Bection VII - Baps to Be Tele Cantion fiber (Wasse Dispose Dispose Use ax	Precautions on h Case Materially sweep to irum and com Method in appointment caution Taken in Heraficol. dry aux	for Sell is Release with rer for for image and in discover for image a	to and water. If swallowed the Handing and Use and or Spied the natural fiber brush or box disposal. Recover dry i burning area in accordance disposing pyrotechnic mixt work at all times. Avoid a	consult physician immediately. room. Avoid generating dust. Put in f possible. with Federal, State and Local regulat ures. Do not burn in large quantities xtrems heat, open flames and rough
For aki Bection VII - Baps to Be Tele Cantion fiber Fiber Dispose Use ax Precautors to B Keep C	Processions on in Case Members in by sweep to drum and com Method a of in appi trame cauti trame cauti trame cauti on, dry an	for Se in Reich will rever for in mg and i d cover stora	burning area in accordance disposing pyrotechnic mixtoring area in accordance disposing pyrotechnic mixtoring area at all times. Avoid see containers with metal presented as all times.	consult physician immediately. room. Avoid generating dust. Put in f possible. with Federal, State and Local regulat ures. Do not burn in large quantities xtrems heat, open flames and rough
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For aki Bection VII - Baps to Be Tele Cantion fiber (Wasse Disposed Dispose Use ax Precautors to B Keep C handli	Precessions on h Case Materially sweep to irum and com Method a of in appointment cautiful trame	for Se in Reich will rever for in mg and i d cover stora	burning area in accordance disposing pyrotechnic mixtoring area in accordance disposing pyrotechnic mixtoring area at all times. Avoid see containers with metal presented as all times.	consult physician immediately. room. Avoid generating dust. Put in f possible. with Federal, State and Local regulatures. Do not burn in large quantities extreme heat, open flames and rough
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For aki Section VII - Baps to Be Twi Cantion fiber (Waste Dispose Dispose Use ax Precautors to B Keep 5: handli Other Precautor	Precautions on h Case Manchinaly sweep in trum and con Method a of in appir trame caution Taken in Heromotol, dry and in all	tor Sala la Release with sort for the cover	to and water. If swallowed the Handing and Use and or Spied the natural fiber brush or box disposal. Recover dry i burning area in accordance disposing pyrotechnic mixturing area at all times. Avoid a see containers with metal program and tumbling areas.	room. Avoid generating dust. Put in f possible. with Federal, State and Local regulatures. Do not burn in large quantities attempt beat, open flames and rough rts. Conductive flooring and footween
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For aki Section VII - Shape to Be Take Cantion fiber of Dispose Use ex Precasions to B Kenn C handli Other Precasion BIOSH Vection Other Protection Other Protection	Processions on in Case Menter in ly sweep to irum and cor Method in appr trame cautic trame cautic trame cautic trame in Herom onl, dry and in all Control Me actin (Special Special	tor Sale for	to and water. If swallowed the Handing and Use and a Spined the natural fiber brush or but disposal. Recover dry in burning area in accordance disposing pyrotechnic mixtured at all times. Avoid see containers with metal pring and tumbling areas. Spirator in areas where dust all room ventilation Eye Professor	consult physician immediately. room. Avoid generating dust. Put in f possible. with Federal, State and Local regulatures. Do not burn in large quantities extreme heat, open flames and rough rts. Conductive flooring and footweat st is present. pedd ther cion safety glasses

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Material Safety Data Sheet
May be used to comply with
OSHA's Hicard Communication Standard,
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor *
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved



onsulted for specific requirements.		OMB No. 1218-0072		
CHARTREUSE HAGNESTUM		Moto: Blank spaces are not permitted, if any information is everlable, the space mu		AD Dat
ection I			<u>6;,,</u>	
Janutachuru's Name		Energency Telephone Number	Y RECE	
CKI.KRRITY FIREWORKS, INC.		(714) 822-3758 Telephone Number for Information		
chirosa (Phintiper, Street, City, State, and ZIP Code)			AUG 1 C	
P.6-Box 1429		(714) 822-3758	i :	
		10/15/86	11:1:	
7440 W. Alder		Signature of Preparer (Applicant)	<u></u>	_
Rialto, Ca. 92376	<u>*.</u>		With the same of the	.,
Section II Hazardous Ingredients/Idea	netty information	20	くはいると	
Heserdone Components (Specific Chemical Identity;	Common Name(s)	ACGINITIAN	CVE 4.	
			<u> 10022-31-8</u>	
Barium Mitrate		5 mg/H ³	1331-71-1	
Cryolite			<u></u>	
Dextrin				
Magnesium Almeinum Alloy		•		
		5 mg/X ³	_7778-74-7	
Potassius Perchlorata		·		
Red Cust	 	5 pg/H ³	68441-58-7	
Superchlon CR			10043-35-3	
Borie Acid				
Section III Physical/Chemical Chamc	teristics			
Boiling Point	N/A	Specific Gravity (H ₂ O = 1)	H	/A
Vapor Pressure (con Hg.)	N/A	Melting Point		/_
Vapor Density (AIR = 1),		Exeporation Rate		
•	LN/A	(Bulyl Acetala - 1)		//
Solubility in Water Hoderate				<u> </u>
Appearance and Odor Light Pink Gra		r, Odorless		
Section IV — Fire and Explosion Haza	nd Data			
Charle Cours Salethool Lloads		Florenskip Umits	Tree Tree	_
1/A			_11	
Extinguishing Mode NOKE				
Special Fire Pighting Procedures DO NOT TRY TO EXTINGUISH C	lear the an	es and allow to burn. Mix	ture supplies !	te
own oxygen to feed the fire. Unusual Fire and Explosion Hazards				
Can be ignited by spark. Ill				<u>kplod</u>
under fire conditions. Fini	shed dry s	tars are more hazardous tha	n bulk powder.	~, ~
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Section V —	On a set of the Day	4-			
	Reactivity Dr	114	Conditions to Audid		
Stability	Unstable		heat. 1	lage, inpact of	electric sparks.
	Stable				
ncompetibility	(Maleriels to Avo	id) , ₁₀₀	ok nown		•
B	ar Bar		Caldes of Underson Hi	drogen Gas, Hy	rochioric Acid
	CIE NAY CONT.	AIN: C	oxides of Nitrogen, O	ides of Barium	Oxides of Chlorine
iazardosia iojymetzalion	May Occur		Conditions to Avoid		
	WIE Not Occur	T _x			
Section VI -	- Health Haza	rd Deta			
Route(d) of Entr	د ، ب	i siptimi	新		ingetoni
leath Hezerte	(Acute and Chrosi	#		a to the state of	de anallomed
Dunt 1	toxic N	llg]A	irritating to skin at	d eves. Toxte	IL satisface.
	· · · · · · · · · · · · · · · · · · ·	· 	·		
					CG+1A Reculated?
Carcinogenicitys		तिर	iARC	Monographs?	OGAY technical
not fo	<u> </u>				
	to an all Constants		<u> </u>		· · · · · · · · · · · · · · · · · · ·
Signs and sym	ptome of Exposure	Skir	and eye redness.		
			•		
Medical Condition	one		mkno va		
Generally Appr	neted by Exposure			· · · · · · · · · · · · · · · · · · ·	
Por ey	in. wash wi	th so	p and water. If swa	If irritation lowed, consult	persists, ret medical attention physician immediately.
			to Handling and Use		
Steps to Se Tai Cautio	an is Case Materi	up wit	th natural fiber brus	h or broom. Av	oid generating dust. Pat in
			or disposal. Recover		
11004					
Waste Disposal	Method	roved	burning area in acco	rdance with Fee	leral, State and Local regulation
DIBPO			diameter protechni	e mixtures. De	not burn in large quantities.
		no and 6	-		•
Preceutions to	ool dry al	d cov	ered at all times. A	void extreme h	eat, open flames and rough
Keen s			e containers with me	tal narts. Co	
		STOTAL			nductive flooring and footwear
handli	ne Ayoid	eizi	ng and tumbling areas	•	nductive flooring and footwear
	ng Ayold ma in all	mixi	ng and tumbling areas	•	ductive flooring and footwear
handli	ng. Ayoid	mixi	ng and tumbling areas	•	ductive flooring and footwear
handli Other Precould Specifical VIII	in all	mixi mixin	ng and tumbling areas		
handli Other Precede	in all	mixi mixin	ng and tumbling areas		
handli Other Precede	in all	esuree	spirator in areas who		
handli Oner Precede Section VIII Frankstory Pre- BIOSH	- Control Ma	mixin	ng and tumbling areas	re dust is pre	
handli Oner Precede Section VIII Feedbally Pre- HIOSH Verstation	— Control Ma — Control Ma section (Specify by Approved of Local Enhant Mechanical (Gas	mixin	spirator in areas who	Special Other	sent.
handli Coner Precessor Section VIII Feedbatory Pro HIOSH Verstation Protective Glove	- Control Me section (Spect) To Approved of Local Esteunt Mechanical (Garage)	sixing street st	spirator in areas who	Special Other	
handli Other Precede Section VIII Respective Pre- HIOSH Versteller	— Control Manager of the Control of Specify Name of Specify Na	mixing manufactured with the control of the control	spirator in areas who	Special Other Eye Protection safe	sent.
Section VIII Fluorintory Properties Protective Glove Protective First 11	— Control Me cocton (Specty Dy Approved of Lacel Enhant Mechanical (Gas rubber Cooking or Equipover, cotton	glov	spirator in areas who ral room ventilation es	Special Other Eye Protection safe	sent.

ateriel Safety Data Sheet by the used to comply with SHA's Hezard Communication Standard, CFR 1910.1200. Standard must be insulted for specific requirements.		U.S. Department of Labo Occupational Salety and Health A (Non-Mandatory Form) Form Approved OMB No. 1218-0072	\	
DERTITY (its theed on Linbel and the)		Note: Black spaces are not presided, information is evaluable, the space	If any how is not appropriate to	trable, or no indicate that
PURPLE HAGNESIUM			711	
Section 1		Emergency Telephone Number	10	
Menufacturer's Neste		(714) 822-3758	ζ?":	_
CELEBRITY FIREWORKS, IRC.		Telephone Hamber for Information	57	
Address (Number, Street, City, State, and 20° Coo	~	(714) 822-3758	· · · · · · · · · · · · · · · · · · ·	
P.O.Box 1429		Date Propertd		S 02
2440 W. Alder		10/15/86 Signature of Preparar (options)	•	·/U/i
Rialto, Ca. 92376		SQUARTE OF THE PARTY	<u> </u>	
Section II Hazardous Ingredients/k	iontity intornat	lon		. (19)
Hazardous Components (Specific Charactel Identi		ACBIH TLV	CV8.A.	·
	·	1 mg/H ³	1317-38-0	
Cupric Oxide				
Dextrin				
Regnerium Almainum Alloy		. 5 mg/H ³	7778-74-7	
Potassium Perchlorate				
Red Gum				7 m
Strontium Carbonata		5 mg/H ³	- COLLE TO	
Superchion Ck		5 mg/M³	68441-58-	1
Section III — Physical/Chemical Char	racteristics			
Section III — Physical/Chemical Char Boling Polsi	scteristics	Specific Gravity (HgO = 1)		N/A
	· K/A	Specific Gravity (HgO = 1) Helting Point		W/A
Boling Point Vepor Pressure (pris Hg.)	4	Melting Point Evaporation Pate		H/A
Bolling Point	· K/A	Melting Point		_
Boling Point Vepor Pressure (pris Hg.)	M/A B/A	Melting Point Evaporation Pate		H/A
Poling Polis Vapor Pressure (nors Hg.) Vapor Density (AIR = 1) Solubility in Water Hoderate	M/A B/A W/A	. Melting Point Evaporation Pate (Butyl Acetata = 1)		H/A
Boling Point Vepor Pressure (norm Hg.) Vepor Density (AFR = 1) Solubility in Water Hoderate Appearance and Odor Dirty Pink (M/A M/A Granular Pow	Melting Point Evaporation Pate		H/A
Poling Polis Vapor Pressure (non-Hg.) Vapor Danaky (AFR = 1) Solubility in Water Hodera te Appearance and Odor Dirty Pink (Section IV — Fire and Explosion Har	M/A M/A Granular Pow	. Melting Point Evaporation Pate (Butyl Acetata = 1)	LVEL.	H/A
Boling Point Vapor Pressure (norm Hg.) Vapor Danniny (AER = 1) Solubility in Waster Hoderate Appearance and Odor Dirty Pink (M/A M/A Granular Pow	Melting Point Evaporation Pate (But)d Acetata = 1) der, Odorless		N/A N/A
Boling Point Vapor Pressure (pris Hg.) Vapor Density (AIR = 1) Solubility in Water Hodera te Appearance and Odor Dirty Pink (Section IV — Fire and Explosion Har Flush Point (Method Uped) 11/A Exingulating Media	M/A M/A Granular Pow	Emporation Pate (Sub) Acetata = 1) der, Odorless Flammable Limbs	LuaL	N/A N/A
Vapor Pressure (non Hg.) Vapor Deneity (AIR = 1) Solubity in Water Hodera te Appearance and Odor Dirty Pink (Section IV — Fire and Explosion Ha: Flesh Point (Method Uped) 11/A	N/A N/A Granular Pow	Melting Point Evaporation Pate (But)4 Acetata = 1) der, Odorless Flammable Limbs 11/A		WA.
Vapor Pressure (non Hg.) Vapor Density (AFR = 1) Solubility in Water Hodera te Appearance and Odor Dirty Pink (Section IV — Fire and Explosion Has Flush Point (Mathod Upod) Exingulating Media NONE Special Five Fighting Procedures DO NOT TRY TO EXTINGUISH.	W/A W/A Granular Pow zerd Data Clear the a	Eveporation Pate (Subj. Acetata = 1) der, Odorless Flammatic Limbs H/A res and allow to burn.	iixture suppl	WA.
Poling Point Vapor Pressure (non Hg.) Vapor Density (AFF = 1) Solubility in Water Hoderate Appearance and Odor Dirty Pink (Section IV — Fire and Explosion Has Flesh Point (Method Uped) II/A Exingulating Media NONE Special Fire Fighting Procedures DO NOT TRY TO EXTINGUISH	W/A W/A Granular Pow zerd Data Clear the a	Eveporation Pate (Subj. Acetata = 1) der, Odorless Flammatic Limbs H/A res and allow to burn.	iixture suppl	WA.
Vapor Pressure (non Hg.) Vapor Deneky (AFR = 1) Solubility in Water Hodera te Appearance and Odor Dirty Pink (Section IV — Fire and Explosion Has Flush Point (Author Upon) Exingulating Media NONE Special Five Fighting Procedures DO NOT TRY TO EXTINGUISH.	R/A B/A W/A Cranular Pow zerd Data Clear the a	Emporation Pate (Subj. Acetata = 1) der, Odorless Flammable Limbs H/A res and allow to burn,	ixture suppl	WA.

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Section V	Reactivity Data	_				
Statistics	Uneteble	Ţ.,	Conditions to Avaid	flame	. inpact or elec	tric sparks.
	Statule	_	11443			
incompatibility (Heteriele to Avoid		CDOWN			•
		- n=	des of Hydrogen D	cides	of Carbon, Oxid	es, of Mitrogen,
Heatigons neces	R MAY CONTÁI	Na Ox	1068 OI CUIDIIDA H	drog	en Gas, Hydrochl	oric Acid
Haradous Polymetration	May Coop		Conditions to Avoid			
•	WE Not Occur	x		_		
Section VI -	Health Hazard	Deta				
Floute(h) of Entry:	· prim	inioni?	S-42	? 		inguismi
Health Hexards P	Acute and Chronic)			-4 -	an Toyle if a	wallowed.
Dust is	toxic. Hill	dly	irritatine to skin s	THE BY	TORREST OF THE PARTY OF THE PAR	
	<u> </u>		<u> </u>			•
	NIP		· · · · · · · · · · · · · · · · · · ·	C Mono	mapha?	OSHA Regulated?
Carcinogenicity:		<i></i>				
	•					
Signs and Sympl	one of Exposure	Skin	and eye redness.			•
					<u></u>	
Medical Condition	THE		unknowi			
Generally Agoras	ated by Exposure					
	First Aid Procedures					
Por eve	m. flush wit	h_va	ter for 15 minutes.	_If_	irritation persi	sts, get medical attention.
Por ski	n. wash with	508	and water. If aw	llow	ed, consult phys	ician innediately.
Section VI -	- Preceutions &	or Sei	a Haucong and cas			
Stage to Be Take	on in Case Material is	Fieles Wit	eeder Spiled h natural <u>fiber bru</u>	sh or	broom. Avoid	generating dust. Put in
- Caber d	The and core	τ fo	r disposal. Recove	r d ry	if possible.	
Tiper y	Tital Site Cove	v				
Wasta Disposal I	Anthod		burning area in acc	orden	ce with Federal	, State and Local regulations
Dispose	of in appro	Yeu	di de de la sec	40.01	-t Do not	born in large quantities.
						burn in large quentities.
Proceedions to D	onl. dry and	COTE	red at all times.	Ayold	extreme heat.	open flames and rough
	a. Avoid at	OTAP.	e containers with m	ctal	parts. Conduct	ive flooring and footwear
Other Precaution	in all w	ixin	g and tumbling area	s.		•
	Control Mees		 		 	
Section VIII	ecton Greaty Nest		pirator in areas wh			
AIGER		Tes	pirator in areas wh	HETE (Special Special	
Verification	Local Edward	enez	al room ventilation		open-	
	Mechanical (General				Other	
Protective Glove	rubber t	leve		Eye P	safety g	lasses
Other Protection	Combine or Equipme					
Pull co	OVER COLLON	mrk.	clothes in mixing s			
York/typleric P	makes poseksepins	sec	tial. Keep area fr	ree f	rom accumulatio	of dust or residue.
6000_0			Pag	1		+ #2#P#: 1985-495-525/45775

Material Safety Data Sheet May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200, Standard stust be consulted for specific requirements.		U.S. Department of Labo Occupational Safety and Health A (Non-Mandatory Form) Form Approved OMB No. 1218-0072	M' ' dreirüstration	
EDENTITY (No Used on Label and Lin)		Note: Black spaces are not pervised, in information in southelds, the space	Yeary item in not apply	loshin, er pe loshola shat.
BLUE HAGRESTUM		Homeson & parting to	(13)	
Section i				
Merulectro's Name CELEBRITY PIREVORKS, INC.		Emergency Telephone Humber (714) 822-3758	<u> 197 - </u>	•
Address (Auston, Street, City, State, and ZIP Code)		Telephone Humber for Information	<i>r</i>	
P.0-Box 1429		(714) 822-3758		
		10 /15 /86		
ZAAN W. Alder		Signature of Property (spiking)		
Rialto, Ca. 92376	<u>:</u>	<u></u>		
Section II — Hazardous ingredients/identity			77 1 T 3	'*
Hazardous Components (Specific Chemical Identity; Comm	non Name (s)	ACGH TLY	CAS 4	
Cupric Oxide	<u> </u>	1 mg/H ³	1317-38-0	
<u> Dextrin</u>				
Magnesium Aluminum Alloy		5 mg/K ³	7778-74-7	
Potassium Perchiorate				
Red Gmi Superchion CR		5 ag/H³	68441-58-	7
•				
Section III Physical/Chemical Characteris	tics			, — · · · · · · · · · · · · · · · · · ·
Boiling Point	N/A	Specific Gravity (14/0 = 1)		N/A
Vapor Pressure (mm Hg.)	N/A	Meliog Point		W/A
Vapor Density (AIR = 1)	D/A	Emparation Rate	,	
Solutiony in Water	M/A	(Butyl Acetale - 1)		
Hoderate		<u></u>		
Appearance and Odor Gray-Black Granula:	r Powder,	Odorless		
Section N — Fire and Explosion Hazard De	le.			
Flesh Paint (Method Uped)		Flammable Limits 11/A	诅	UEL.
Entinguishing Media NONE				
Special Fire Figures Procedures DO NOT TRY TO EXTINGUISH Clear	the area	a and allow to burn. Hi	exture suppli	les its
Own oxyren to feed the fire. Unasual Fre and Explosion Hazards	,			
Can be ignited by spark, friction				
under fire conditions. Pinished	dry sta	rs are more hazardous t	han bulk pow o	der. 1914 174 Sam 141

•			·			
ertion V —	Reactivity Date					
Debilly -	Unstable	1.	Conditions to Avoid heat. fl	ADS.	inpact or electric sparks,	
	Stable					
competibility (taterials to Avoid	unk	DONG			u
harmedone Decor	position or Byprox	Nuclis			as undresen Hydroven Gas. Hydrochlor	le
TOXIC SHOK	MAY CONTA	IN: O	cides of Chlorine, Oxi Conditions to Avaid	OCA	s of Hydrogen, Hydrogen Gas. Hydrochlor	id
-,	WIR Hot Coour	x				
ection VI -	Health Hazan	Deta	<u>-</u>			t .
cutofy of Emby		windor(?	SIÁ		IngetCon?	
herit Hazaris (Dun t. 18	toxic Hi	ldly	rritating to skin and	L_ex	yes. Toxic if smallowed.	•
	<u></u> .					-
Carchopericity	AFT	Pî	WAC I	Aunog	ographe? OSHA Required?	
not fou						-
- 10-	orns of Exposure					-
BOUR SUD SHARE		Skin	and eye redness.			
						-
Medical Conditions Generally Approximately	relad by Exposure		unknowa			-
						- .
Anarpency and	First Aid Procedure	s e	ter for 15 minutes.	If.	irritation persists, get medical atten	<u> F</u> J.00
Poz.ex	A finan W	10.30		1 ove	wed, consult physician immediately.	
For sk	n vach wil	in too	e Handling and Use		-	
Section vii Steps to Be Tak	en in Case Materia	in Field	med or Spined h natural fiber brush	OT	r broom. Avoid generating dust. Put is	<u> </u>
Caution	181A SMOOD	<u> </u>	n disposal Recover	ATV	v if possible.	
fiber	drum and co	MET IC	r disposal. Recover	<u> </u>		
Wante Disposal	Method	roved	burning area in accor	dan	nce with Federal, State and Local regu	leti
Dishos	and conti	on in	disposing pyrotechnic	e mi	ixtures. Do not burn in large quantit	Les.
Consultant to 1	e Taken in Hand	ng and S	toring		touch one flames and rough	
	1 4 670	COVI	red at all timesa	7010	d extreme heat, open flames and rough	
bendli	ne Avoid	a torai	e containers with me ig and tumbling areas	tal.	parts. Conductive flooring and foots	err
Other Precauto	10 411					
Section VIII	Control Me				Just is present.	
	Approved do	st re	spirator in areas whe	TE (Special Specia	
Vestision	Local Exhaust Mechanical (Gar	Gene	ral room ventilation		Other	
	<u>1</u>			Eye Pi	Protection	
Protective Glov	Inner		es l		safety glasses	
Other Protection	Clothing or Equip	meni Lyptk	clothes in aixing at	nd_t	tumbling areas.	
Workstygienic	Practices		ntial. Keen area fro	ee f	from accumulation of dust or residue.	
Good_	house terbling	<u> </u>	Page	2	* 010FF* 1000-4FT-781M	4773

Material Safety Data Sheet		Occupational Safety and Health Administration	
May be used to comply with		(Non-Mandatory Form)	A.
OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Senderd must be		Form Approved	
consulted for specific requirements.		OMB No. 1218-0072	
IDENTITY (As Used on Label and Ling)		Mose: Short spaces are not paralled. If my had Mirot in Moraration is archeols, the space must be provided	or m
RED MAGNESIUM			
Section I		Financial Telephone Number	nec 1
Nanadecarat's Nana			
CONTRACTOR PTREMORKS. INC.		(714) 822-3758 - AUG 1	7 1000
Address Standar, Street, Cly, State, and ZIP Cooks		Telephone Number for Information (714) 822-3758	3 1987
P.6.Box 1429		(714) 822-3758 (1-4 circle) 10 Date Prepared	*************************************
•		10/15/86	TRES
		Signature of Proposer (optional)	7:51
Rialto, Ca. 92376	<u> </u>		10/
Section II Hazardous Ingredients/Identity	y informati	on .	-
Hazardous Components (Specific Chemical Identity; Cos			<u> </u>
Dextrin			
Mannasium Aluminum Allor		5 mg/H ³ 7778-74	
Potassium Perchlorate		3 mg/R ///0-74	
Red Gus		5 mg/H³	
Strontina Carbonate		5 18/12 68441-5	R_7
Superchlon CR			
			
			
Section iii Physical/Chemical Characteri	etics		
Boling Palet .	H/A	Specific Guardy (HgO = 1)	M/A
Vapor Pressure (mm Hg.)		Melling Point	
	N/A		
Vapor Density (AIR = 1)	1	Eveporation Flate (Dutyl Acutate = 1)	N/A
A LATE IN WHAT	LN/A	(hand)	
Solution in Water Hoderate	<u> </u>		
Appearance and Odor			
Light Pink Granus		r, Udoriess	
Section IV — Fire and Explosion Hazard I)ets	December limbs LE.	Tue
Fresh Point (Method Uped)		Fluremeble Limits H/A	} ~~~
N/A			
Endinguishing Media NONE			
DO NOT TRY TO EXTINGUISH Clea	r the ar	es and allow to burn. Mixture supp	1168 168
		•	•
ove oxygen to feed the fire.			
Unusual Fire and Explosion Hazards	on or in	pact. Containers of bulk material	may explode
under fire conditions. Pinishe	d dry st	ars are more basardous than bulk no	0514 174 5-4 48
Financiucs locally)		•	

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tion V	Reactivity Date	-	Conditions to Avaid		
STEEL STEEL	Unstable	1	heat. fl	me. inpact	or electric sparks.
	(Stands)	<u> </u>			
	Historials to Arcid		cnowa	ric Acid	
ardon Decor	nposition or Bypico	Licks H	vides of Hydrogen, Oxi	des of Cart	on, Oxides of Chlorina
XIC SMOK	MAY CONTA		Conditions to Avoid	,	on, Oxides of Chlorina
enertation	WE Not Occur	+			
1/1	Heelth Hazari				
october of Estry	in in	electron?	84.		ingretoni
				eves. To:	xic if swallowed.
Dont is	toxic. Hi	ldly	irritating to skin and	,	
					· · · · · · · · · · · · · · · · · · ·
		Pt	WRCI	lonographs?	OSHA Regulated?
not for					
			· · · · · ·		
agns and Gymp	toms of Exposure	Skis	and eye, redness.		
			•		
Medical Conditions Benefit Approximately	ing		าเกโรกอชนิ		
			THE CHAPTER		
Paramouncy and	First Aid Procedure			If irritat	ion persists, get medical attention
Emergency and For ey	Fire Aid Procedure	th w	ster for 15 minutes.	If irritat	ion persists, get medical attention
For ex	First Aid Procedure es, flush wi	th to	ater for 15 minutes. By and water. If sys!	Toxed con	
Por ex Yor ex Yor ex Section VII Steps to Be Tal	First Aid Procedure ex. flush with a Precautions — Precautions into in Case Materia	th so for Si	nter for 15 minutes. no and water. If swall no Handling and Use mosed or Spiled th natural fiber brush	or broom.	Avoid generating dust. Put in
For ex Yor ex Yor ex Section VII	First Aid Procedure ex. flush with a Precautions — Precautions into in Case Materia	th so for Si	nter for 15 minutes. no and water. If swall no Handling and Use mosed or Spiled th natural fiber brush	or broom.	Avoid generating dust. Put in
For ak Section VII Sups to Be Tel Cautio fiber	Fra Aid Procedures, flush with wash with Processions to the Market wally sweep drum and co	th so for Side Res	ater for 15 minutes. And and water. If swall also Handling and Use besed or Spiled th natural fiber brush or dispossl. Recover	or broom.	Avoid generating dust. Put in
For ex Yor ak Section VII Steps to Be Tal Caution	First Aid Procedures, flush wing, wash wing. Processions into in Case Material weeks weeks in the case of the cas	th so tor Si is help vi	ater for 15 minutes. And and water. If swal the Handling and Use mesed or Spiled th natural fiber brush or disposal. Recover	or broom.	Avoid generating dust. Put in sible. Federal, State and Local regulat
For ak Section VII Stops to Be Tal Caution	First Aid Procedures, flush wing, wash wing. Processions into in Case Material weeks weeks in the case of the cas	th so tor Si is help vi	ater for 15 minutes. And and water. If swal the Handling and Use mesed or Spiled th natural fiber brush or disposal. Recover	or broom.	Avoid generating dust. Put in sible. Federal, State and Local regulat
For ex Yor ak Section VII Seps to Be Tai Cautio fiber Weste Dispose Dispose	First Ald Proceedings of Turn and Co-	th so tor Si d in Rei top vi ver f	ater for 15 minutes. AD and water. If swall the Handling and Use the natural fiber brush or disposal. Recover burning area in account disposing pyrotachmic	or broom. dry if pos	Avoid generating dust. Put in sible. Pederal, State and Local regulat. Do not burn in large quantities
For ak Section VII Section VII Seps to Be Tai Cautio fiber Whats Dispose Dispose	First Ald Procedures as, flush with a Precautions too in Case Massive sweep drum and comments of in appointment cantiles the Talon in Handles	th were for some for some firms and for some for some firms and for some fo	ater for 15 minutes. The and water. If swall the Handling and Use mosed or Spired th natural fiber brush or disposal. Recover burning area in account disposing pyrotachnic Spoing	or broom. dry if post	Avoid generating dust. Put in sible. Federal, State and Local regulat. Do not burn in large quantities are best, open flames and rough
For ak Section VII Seps to Be Tai Cautio fiber Wester Dispose	First Ald Procedures as, flush with a Precautions too in Case Massive sweep drum and comments of in appointment cantiles the Talon in Handles	th were for some for some firms and for some for some firms and for some fo	ater for 15 minutes. The and water. If swall the Handling and Use mosed or Spired th natural fiber brush or disposal. Recover burning area in account disposing pyrotachnic Spoing	or broom. dry if post	Avoid generating dust. Put in sible. Federal, State and Local regulat. Do not burn in large quantities are best, open flames and rough
For ak Section VII Cautio fiber Use co Frequence to Kesp	First Aid Procedures, flush with an and with a second and company of the second and company of t	th we to so	ater for 15 minutes. The and water. If swall me Handling and Use mesed or Spised the natural fiber brush or disposal. Recover burning area in account disposing pyrotachnic Storing rered at all times. A see containers with me	or broom. dry if pos dance with aixtures.	Avoid generating dust. Put in sible. Pederal, State and Local regulat. Do not burn in large quantities
For ak Section VII Fractions to Kenn	First Aid Procedures, flush with an and with a second and company of the second and company of t	th we to so	ater for 15 minutes. The and water. If swall the Handling and Use mosed or Spired th natural fiber brush or disposal. Recover burning area in account disposing pyrotachnic Spoing	or broom. dry if pos dance with aixtures.	Avoid generating dust. Put in sible. Federal, State and Local regulat. Do not burn in large quantities are best, open flames and rough
For ak Section VII Cautio fiber Use co Frequence to Kesp	First Aid Procedures, flush with an and with a second and company of the second and company of t	th we to so	ater for 15 minutes. The and water. If swall me Handling and Use mesed or Spised the natural fiber brush or disposal. Recover burning area in account disposing pyrotachnic Storing rered at all times. A see containers with me	or broom. dry if pos dance with aixtures.	Avoid generating dust. Put in sible. Federal, State and Local regulat. Do not burn in large quantities are best, open flames and rough
Emergency and For sy For ak Section VII Seeps to Be Tel Cautio fiber Wester Dispose Dispose Dispose Fraceutors to Keep	Fra Ald Procedures, flush with wash with Processions to the Market wasly sweep drum and collections of in appointment of the Tabon in Handle only dry and the in all	th we the sound of	ater for 15 minutes. The and water. If swall see Handling and Use seed or Spired th natural fiber brush or disposal. Recover burning area in account disposing pyrotachnic Storing errod at all times. A see containers with means and tumbling areas	or broom. dry if pos dance with mixtures. void extre	Avoid generating dust. Put in sible. Federal, State and Local regulate. Do not burn in large quantities to beat, open flames and rough Conductive flooring and footwear
Emergency and Yor sy Yor ak Section VII Seeps to Be Tel Gautio fiber Wester Dispose Dispose Dispose Fraceutions to Keep	Fra Ald Procedures, flush with wash with Processions to the Market wasly sweep drum and collections of in appointment of the Tabon in Handle only dry and the in all	th we the sound of	ater for 15 minutes. The and water. If swall see Handling and Use seed or Spired th natural fiber brush or disposal. Recover burning area in account disposing pyrotachnic Storing errod at all times. A see containers with means and tumbling areas	or broom. dry if pos dance with mixtures. void extre	Avoid generating dust. Put in sible. Federal, State and Local regulate. Do not burn in large quantities to beat, open flames and rough Conductive flooring and footwear
Emergency and For cy For ak Section VII Seeps to be Tel Cautio fiber Wester Dispose Dispose Dispose Fraction to Keep handle Section VII Freeplantor Fractions	Fra Ald Procedure as, flush with as, flush with a precautions and in Case Material se of in spp. The Thing in Handle and in all and in all approved of the process of the second and the second are and the second are and the second are all approved of the second are all approved are all are all approved are all are all approved are all are all are all approved are all are	th we the sound on its second	ater for 15 minutes. no and water. If swal see Handling and Use seed or Spised th natural fiber brush or disposal. Recover burning area in account disposing pyrotachnic Spised at all times. A see containers with means and tumbling areas espirator in areas who	or broom. dry if pos dance with mixtures. void extre	Avoid generating dust. Put in sible. Federal, State and Local regulate. Do not burn in large quantities to beat, open flames and rough Conductive flooring and footwear
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STATE OF ARKANSAS

Department of Pollution and Ecology R C. Box 8913 Little Rock, Arkaness 72219-8913 Telephone 501-582-7444



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GENERATOR INITIAL COPY



STATE OF ARKANSAS
Department of Pollution | Land Ecology
P. O. Box 8913 Little Rock, A. Asses 72219-8913

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GENERATOR INITIAL COPY

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AMEX PRODUCTS, INC.

2298 W. STONEHURST . RIALTO, CALIFORNIA 92376

PHONE: 17141 823-1395

FACILITIES - BRIEF DESCRIPTION OF BUILDINGS

- Buildings At Plant (Area A) owned by Amex (83,200 square feet of fenced property).
 - A. Offices and Engineering are housed in stucco building with wood floor. Total floor space is 1577 square feet.
 - B. The Laboratory is constructed of plywood and reinforced concrete with bullet-proof glass windows looking into the test cells. The laboratory (224 square feet) has two test cells, one of which houses hydraulic presses and the other a burning and mixing area. It is surrounded by earthworks approximately ten feet high.
 - C. Explosives Assembly and Mechanical Assembly buildings are metal buildings on cement slabs, 400 square feet each. Machine Shop is metal building on cement slab, 400 square feet.
 - D. The Chaff Building is a metal building on a concrete slab, 400 square feet.
 - E. The Wood and Plastics shop is a metal building on concrete slab, 400 square feet.
 - F. The Drying Building is a heavy wood frame building on a concrete slab of 192 square feet. It is surrounded by 10 foot revetments.
 - G. The Electronic Laboratory and Electrical shop is a metal building with wood floor laid over



AMEX PRODUCTS, INC.

2298 W. STONEHURST . RIALTO, CALIFORNIA 92376

PHONE: (714) 623,1305

a concrete slab of 220 square feet.

- H. Welding shop is a metal building on concrete slab.
- I. The vehicle maintenance and storage building is a metal building on a concrete slab of 1056 square feet.
- J. The explosives storage area at the immediate plant has a small cap magazine and wood storage building for explosives that are being processed. It is surrounded by ten foot revetments.

Proposed construction at Area "A" in the near future includes an underwater research pool (1900 square feet) and an engineering building of 576 square feet which will triple our Research and Development capability.

- II. Buildings At Bunker (Area B) leased property with long term lease (10 years).
 - A. West of the bunker are two powder mixing and storage buildings (236 square feet) and a shed (100 square feet) for constructing test flares and other pyrotechnic devices. Powder is mixed at this location.



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PHONE: (714) 823-1395

- B. The Bunker is 25' X 90' (2250 square feet).
- C. Total leased space is 630,000 square feet.

III. Area C - TEST RANGE:

The test range is located on 15 acres northwest of the plant, abutting the Old Rialto Ammunition Depot on the North. (The plant abuts the Depot on the South). The range includes a cleared area of 300° x 1000° with a metal building on wooden runners (100 square feet) containing desk, test equipment, phone, radio communications equipment and work bench. Test range also contains a permanent test stand.



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PHONE: 1714) 823-1395

MACHINERY AND EQUIPMENT

Machine Shop (Precision Equipment)

Lathes
Milling Machine
Press
Band Saw
Drill Presses
Grinding Wheels
Necessary associated benches and tools

Welding Shop

Heliarc Welder
Electric Arc Welder
Plastic Welding Equipment
Oxy-acetylene Equipment
Chain falls
Grinding Wheel
Welding Tables
Associated jigs, tools, etc.

Explosive Assembly

Hydraulic Presses
Arbor Press ...
Explosion Shields
Scales
Associated work benches and non-sparking tools

Chaff Shop

Chaff Pressing Equipment Work benches

Wood and Plastic Shop

Radial Saw Bench Saw Circular Saws



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Wood and Plastic Shop (continued)

Joiner Plane
Lathe
Drill Press
Sanding Machine
Grinding Wheel
Jig Saw
Associated electrical and manual tools and woodworking benches

Mechanical Assembly

Work Benches
Drill Press
Soldering Equipment
Heat Sealing Equipment
Heat Shrinking Equipment
Electrical and manual hand tools

Electronic Laboratory

Voltmeters
Power Supply
Oscilloscopes
IR Equipment
Frequency Meters
Recording Equipment

Chemical Laboratory

Scales
Mixing equipment
Measuring and Screening Equipment
Hydraulic Presses up to 122 tons
IR Measuring Equipment
Underwater Test Tank

Drying Building

Trays, etc. for drying ingredients and mixtures Humidity and Temperature Control Equipment



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Administrative/Engineering Offices

Usual Office Equipment
Reproduction Equipment including blueprint capability
Drafting Room and Equipment
IBM Microviewer
Citizen Band Communications System for communication
with vehicles, range and boat
Hewlett-Packard Computer

Vehicles

Instrumentation Van - Radar, frequency analysis equipment, IR measuring equipment, Communications equipment, Photographic equipment, close circuit TV camera and receiver. One leased truck for pick-up and delivery
Two Explosives Delivery Trucks-two-way radio equipped.
One Station wagon for administrative trips and small explosives delivery-two-way radio equipped.
One 300 gal. Fire Engine
One fire fighting trailer
Emergency generator trailer

Test Boat

A 40' 16 ton ocean-going boat under long-term charter. The boat is equipped for launching of mortars and rockets and shallow water diving. The cruising range is 800-1000 nautical miles. Equipped with a galley and head, the boat has permanent accomodations for 3 persons and safety and lifesaving equipment for 34 persons. The following equipment is also permanently on board:

Electrical winches
Radio direction finder
Ship-to-Shore radio
Citizens Band radio
Recording fathometer
Autopilot
Navigation equipment

Test Area (15 acres)

ist.

Building equipped for range control



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Miscellaneous Equipment

Surveying Equipment
Gasoline Storage (100 gals.) and Pump
Underwater camera and miscellaneous still cameras
Portable communications equipment
16 mm. and 8 mm. movie cameras and analyst projector.
Film developing and printing equipment

Note:

All production buildings equipped with electric power (110/220).

All buildings equipped with running water and compressed air.

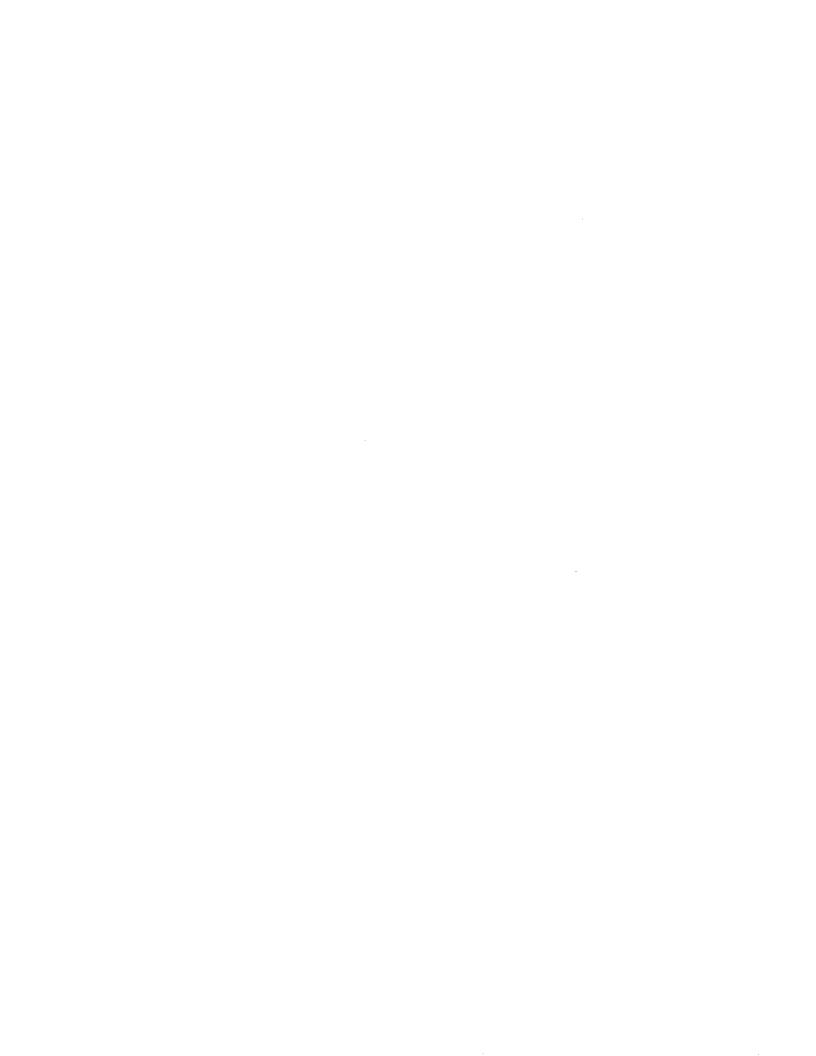
All buildings equipped with firefighting equipment.



2298 W. STONEHURST . RIALTO, CALIF, 92371

AMEX PRODUCTS LIST

<u>s</u>	PEC. NO.	PART NO.
I. HAND-HELD		
SIGNALLING DEVICES		
1. Emergency Signal Flare Kit	212	212
II. UNDERWATER PRODUCTS		
2. Underwater Illumination Flare 3. Underwater Flare Ignition Handle	211-1 211-11	211-1 211-11
 Underwater Flare Parabolic Reflector Underwater Explosive Signalling Devices 	211-17 EXS	211-17 EXS
III. 3" MORTAR SYSTEM		
6. 3" Mortar Round-Chaff Dispersing 7. 3" Mortar Round-Parachute	.111	- 111
Suspended Infrared Flare 8. 3" Mortar Round-Comet Burn	339-2	339-2
Infrared Flare 9. 3" Mortar Round-Burst Pellet	233	233
Infrared Flare 10. 3" Mortar Round-Parachute	339-1	339-1
Suspended Illumination Flare 11. 3" Mortar Round-Parachute	209-1	209-1
Suspended Red Signal Flare	209-2	209-2
12. 3" Mortar Launcher-Single Tube	369-1	369-1
13. Single-Tube Launcher Firing Control Box	369-2	369-2
14. 3" Mortar Launcher-10 Tube 15. 10 Tube Launcher Firing Control Box	120-4 362-4	120-4 362-4



ARE REPLY TO ADDRESS CHECKED





COUNTY OF SAN BERNARDING ENVIRONMENTAL PUBLIC WORKS AGENCY

RICHARD L. ROBERTS, R.S., M.P.H. Director

August 7, 1987

HAZARDOUS WASTE GENERATOR BORTH RIALTO SURVEY

ana i	ness Name: Trojan Pireworks Co. Contact Person: Stuart Cariton
31 -6	mulicasi 2278 W. Stonchurst. Rialto, CA. 92376 Phone: 822-0100
	ing Address: same
1)	List all Hazardous Materials on site include any explosives
	Explosives (mainly Class C Common fireworks, Class B Special
	fireworks, and wastes from the menufacture of these.)
,	
2)	List all Hazardous Wastes on site include off speck or unusable product*
	As above, production restes such as floor-saceuing; off-spec product;
	returns from displays and July h sales: and damaged or faulty import
	material thich can not be returned.

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	How and where are the hazardous materials and wastes stored? (Please draw a map of the facility indicating structures and materials/wastes stored in them. Also indicate how stored: boxes, drums, etc Please indicate any bunkers or pits located on site). See attached.
l)	Does your facility manufacture likeworker 100 A
5)	Does your facility store fireworks in bulk? Yes No_ See attached
6)	Has your facility had problems disposing of off-speck or unusable
	Fireworks? If yes, please describe: EPA prohibits burying: SOAGHD prohibits
	burning: DOT has no classification for hauling. To date we have
	been allowed only to store it.
7) ි	Have you had any past incidents involving your materials/wastes? Yes X No If yes, please describe below (list dates and any injuries)
. .	Explosion of live raste storage building on July 28, 1987, in
	which there was one fatelity.
8)	Have you developed a "business plan" for emergencies and submitted it to our Department or the Firs Department? (Regardless of the answer, if you have once, please attach it) Yes No X See Attached
9)	List past owners of property, if known: American Explosives Convany during some veriod prior to 1973 then
	Hr. Peters of the Trojan Fireworks Co. accuired it.
Plea	se return this for to: DEBS 385 NORTH ARROWHEAD SAN BERNARDINO, CA 92415

*Attach am additional sheet if more room is needed

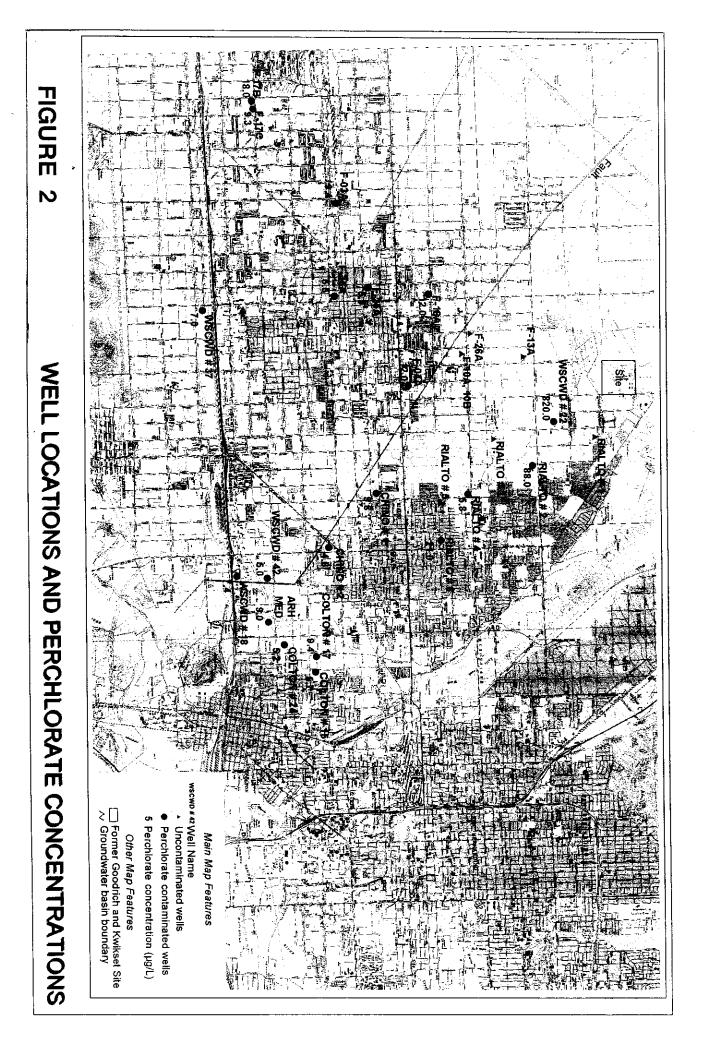
+RETURN TO US NO LATER THAN AUGUST 21, 1987+



Atta nt to Hazardous Taste Gr. ator

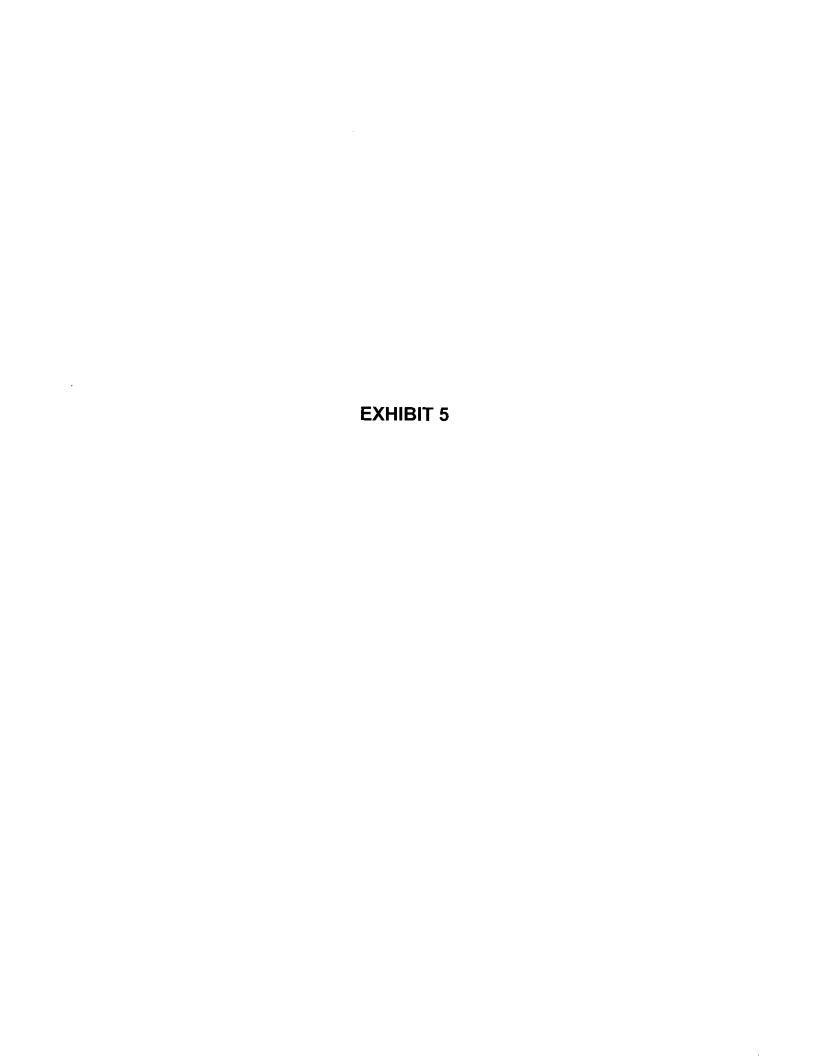
- 3) Prior to the explosion of July 26, 1937, live waste was stored in cardboard boxes and drums, and paper bags, in a building surrounded by an earthen embankment on the referenced site. Wastes are presently being stored in Bunker E-1 of the former U.S. Ravy bunkers located on the property of the Schulz Trust and leased from the Trust. Cardboard and paper containers continue to be used.
- 5) Ro finished firevorks are, or have been, stored at the referenced site. "Safe and Sane" Class C Common Fireworks are transported to the company varehouse in Santa Fe Springs upon completion. Class B Special Fireworks manufactured at the site or pruchased from outside suppliers are stored in Bunkers B-1, B-2 and E-1, now leased from private owners.
- 8) We have not filed a formal Business Plan, but we have worked closely with the Rialto Fire Department in connection with structures and contents, and the probable violence, if any, of their burning in case of fires.







The second secon	388 RECORDED AT REQUEST BOOK 7325 PAGE 842
RECORDING REQUESTED BY	000
Tasker Industries	BOOK 7325 PAGE 842 1690CT 23 Pm 1:11
AND WHEN RECORDED MAIL TO	OFFICIAL RECORDS
Tasker Industries	SAN BERNARDHU CO. CALIF. Ted Blacenter
4561 Colorado Boulevard	COUNTY RECORDER
Los Angeles, California	b%
MAR TAX STATEMENTS TO	SPACE ABOVE THIS LINE FOR RECORDER'S USE
Tasker Industries 4561 Colorado Boulevard	CALIFORNIA COUNTARY E TAX CALIFORNIA COUNTARY E TAX COCT23'69 C
Los Angeles, California	E 1 6. 5 0 €
90039 Attention: P. R. Gustlin	
Compa	ration Crant Dood
	ration Grant Deed
FOR A VALUABLE CONSIDERATION, rec	eipt of which is hereby acknowledged, INC., who acquired title as American Explo-
sives Co., Inc., a corporation organized under the laws of the	ne state of California
hereby GRANTS to	
TASKER INDUST	RIES, a California corporation
the following described real property in th County of San Bernardino	e, State of California:
Survey, county of San Bern follows: Commencing at a 1/4, distant North 89° 51' of said Section 28; thence to a point that bears Sout line of said South 660 feet the West line of said Sect North 0° 37' 45" West, 390 660 feet of the Northwest	no Base and Meridian, according to Government ardino, state of California described as point in the South line of said Northwest West, 1319.36 feet thereon from the center along a line that bears North 0° 32' West, h 0° 32' East, 150.32 feet from the North t; thence South 79° 37' West, to a point in ion 28 for the true point of beginning; thence feet to the Northwest corner of the South 1/4 of said Section 28; thence South 89° 51' North line; thence South 0° 37' 45" East, to us North 79° 37' East from the true point of 1° 37' West to a true point of beginning.
In Witness Whereof, said corporation in ment to be executed by its	AMEX PRODUCTS, INC.
STATE OF CALIFORNIA	ss. By 9 H-S Andreff Sn. President
	re me, the under By clerk a Safare of
signed, a Notary Public in and for said State, pe George H. Schillreff, Sr.	rsonally appeared
	President, and thought to be
Secretary of the Corporation within Instrument, known to me to be the persons within Instrument on behalf of the Corporation it acknowledged to me that such Corporation executed ment pursuant to its by-laws or a resolution of its WITNESS my hand and official seal. Signature Assultant Baylor	who executed the herein named, and like within Instru
Name (Typed or Printe	d) (This area for official motarial seal)
Title Order No	Escrow or Loan No





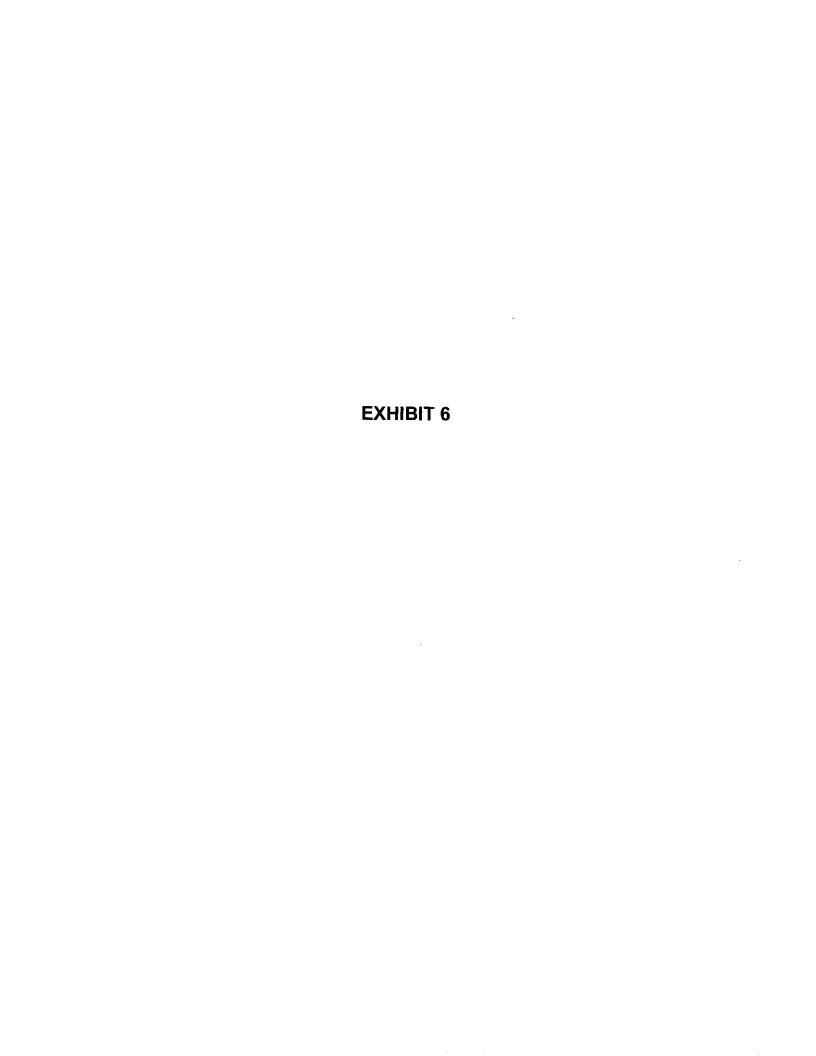
2298 W. STONEHURBY . RIALTO, CALIF. 92376

AMEX PRODUCTS LIST

	SPEC. NO.	PART NO.
	,	
IV. CHAFF DISPERSING ROCKET HEADS		
16. 105 mm Chaff Rocket Head (Italy)	349	349
17. 103 mm Chaff Rocket Head (Bofors)		: 132
18. 2.75" Chaff Rocket Head	332	332-1
19. 2.75" Sequential Burst	005-16	005-16
20. Chaff Loads for 63 mm Rocket (Italy)	131	347
21. 5" Chaff Rocket Head	123	331-1
V. 5" MORTAR SYSTEM	13 - 15 L	
22. 5" Mortar Round-Chaff Dispersing	336	336
23. 5" Mortar Launcher-Ten Tube	124	124
VI. MISCELLANEOUS MILITARY		
24. ALE-29 Burst Flare (IR)	128	128-3
25. ALE-29 Burn Flare (IR)	128	128-2
26. 5" Gun Simulator	354	354
VII. MISCELLANEOUS COMMERCIAL		
27. 3" Illumination Flare-Studio	388	388
27. 3" Illumination Flare-Studio 28. Booby Trap Illumination Flare	BTF	BTF
29. Hand-Held Parade Flare	PF.	PF

AMEX Products/Whittaker

AMIEXTPRODUCT	TRADE FORMULA	(Percent by Weight)
Emergency Signal Flare Kit Red Signal Flares	Ellern, Formulas 60 &61, p 362	K Perchlorate 15% & 25%
Green Signal Flares	Ellern, Formula 54, p. 361	K Perchlorate 16%
3-inch Mortar Round - Chaff	MMR, p Mortar 8 mm	K Perchiorate 12:30%
8-Inch Mortar Round Parachute Suspended Infrared	MMR, p. 1. Mortar 81 min.	7 Telephone and the second sec
Flare		Z Derch orate 12 30%
3-inch Mortar Kound – Comet Burn Infrared Flare	MIMIN, p. 1 MORIAL OF HIM	2 300%
3-inch Mortar Round – Burst Pellet Infrared Flare	MMR, p. 1 Mortar 81mm	N reignorate 12:30 %
3-inch Mortar Round - Barachine Suspended	MMR, p. 1 Mortar 81mm	K. Perchiorate 12.50%
Illumination Flare		
3-inch Mortar Round – Parachute Suspended Red	MMR, p. 1. Mortar 81mm	
Signal Flare	Voltage 8 mm	K Perchlorate 12.30%
105mm Chaff Rocket Head (Italy)	MIMIK, p. 1. Mortar o mimi	
103mm Chaff Rocket Head	MMR, p. 1 Mortar 81mm	N Felchiorate 12.50.70
(Bofors)	31 cm Bosson 1948 in 360	K Perchlorate 35%
5-inch gun simulator	Ellem, Formula 40 p. 350	K Perchlorate 73%
Booby Trap Humination Flare	10 10 10 11 10 11 10 10 10 10 10 10 10 1	K Perchlorate 52%
Pancinela Parade Flare	Ellern, Formula 20, p. 30/	



AutoTrack Home Feedback Results Manager New Search Sign Off Help/Support Permissible Use Reference: GRICH7103

Detail

Corporate Records



Order a Report based on this Detail | Previous Screen

CALIFORNIA SECRETARY OF STATE							
Name:	TASKER INDUS	STRIES					
Type:	ARTICLES OF	INCORPORATION					
Status:	INACTIVE - ME	RGED OUT					
Date Incorporated:	10/24/1956	Foreign State of Incorporation:	CALIFORNIA				
Corporation Number:	C0328628	FEI Number:					

Corporation Officers:

Corporation Addresses:

Additional Corporation Information:

Date: 09/17/1957

Type:

CERTIFICATE OF AMENDMENT

Date: 03/20/1959

CERTIFICATE OF AMENDMENT Type:

Date: 11/22/1961

Type: CERTIFICATE OF AMENDMENT

02/05/1964 Date:

Type: **CERTIFICATE OF AMENDMENT**

Date: 12/22/1966

Type: **CERTIFICATE OF AMENDMENT**

Date: 12/23/1968

CERTIFICATE OF AMENDMENT Type:

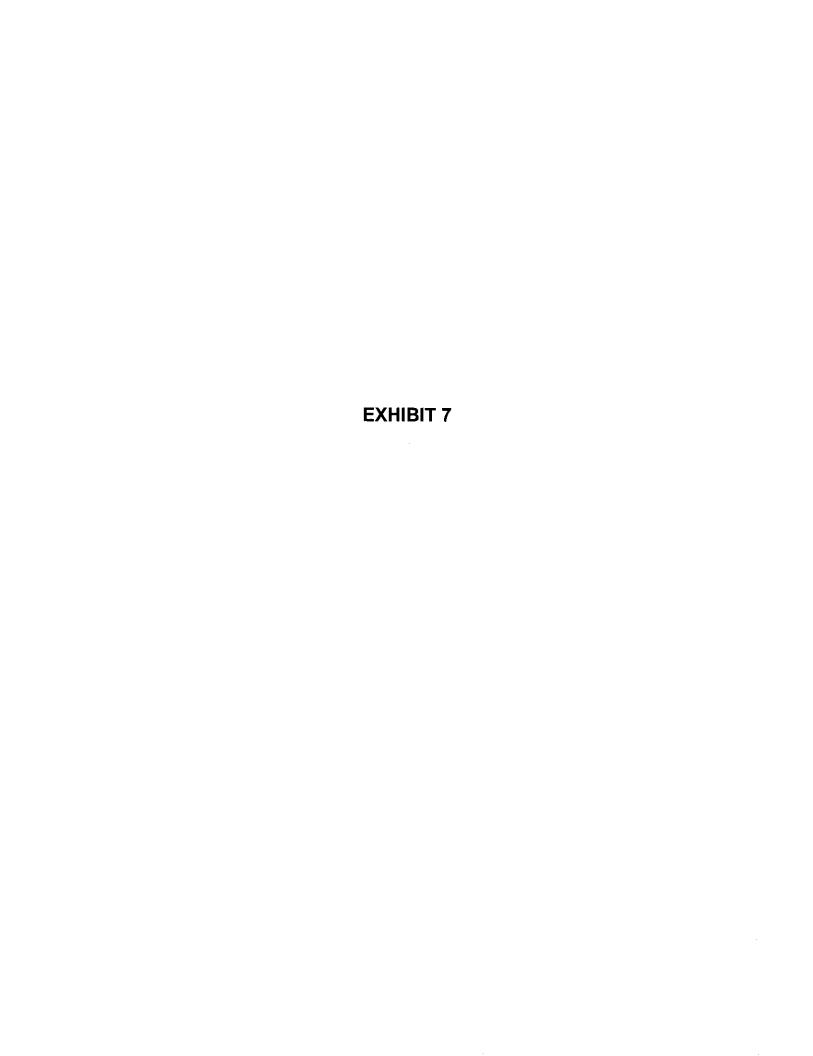
Date: 06/12/1969

Type: CERTIFICATE OF AMENDMENT

Date: 08/29/1969

Type: **CERTIFICATE OF AMENDMENT**

06/04/1970
CERTIFICATE OF AMENDMENT
10/28/1972
CERTIFICATE OF AMENDMENT
02/20/1970
MERGER
MERGED IN 60039722 ELECTRONIC RESOURCES, INC.
10/29/1972
MERGER
OUTGOING-MERGED INTO 60039723 WHITTAKER CORPORATION
10/29/1972
MERGER
OUTGOING-MERGED INTO C0219185 60039723 WHITTAKER CORPORATION
02/20/1970
MERGER
MERGED IN C0559441 60039722 ELECTRONIC RESOURCES, INC.



SARWQCB U

Union Bank

CENTURY CITY

OFFICE

ESCROW DEPARTMENT

ESCROW INSTRUCTIONS

ESCROW	No.	<u> 206 –480</u>

DATE APRIL 24, 1974

TO UNION BANK

The previous instructions in the above numbered escrow are hereby modified—supplemented and/or amended in the following particulars only:

The undersigned WHITTAKER CORPORATION hands you herewith a Grant Deed to ROMERT LEGISLED KERMARD, a married man, covering property described as:

The east 150 feet, measured along the mertherly line thermof, of that portion of the south 660 feet of the morthwest & of Section 28, Township 1 North, Range 5 West, Sem Bernardino Heridian, in the County of Sem Bernardino, State of California, according to the official plat thereof, described as follows:

Commencing at a point in the south line of said sorthwest \(\), distant North 89° 51'
West 1319.36 feet thereon from the center of said Section 28; themce sleep a line
that hears North 0° 32' Nest to a point that hears South 0° 32' East 150.32 feet
from the North line of said South 660 feet; themce South 79° 37' Neet to a point in
the west line of said Section 28 for the true point of beginning; thence North 0°
37' 45" Nest 390 feet to the northwest corner of the South 660 feet of the northwest
\(\) of said section 28; thence South 89° 51' East 300 feet along said morth line;
thence South 0° 37' 45" East to a point in a line that bears North 79° 37' East from
the true point of beginning; thence South 79° 37' Nest to the true point of beginning.

You are authorized to use and record said Deed without further consideration to the Seller when Title Insurance and Trust Company can re-issue their Policy of Title Insurance No. 658439 showing a corrected legal description to include the property described above, said property being subject only to all 1974-1975 general and special texas and items I thru 3 as shown on that certain Preliminary Report of Title \$675533 dated February 11, 1974. Instruct the title company to affix \$-0-Documentary Trunsfer Tax to the Deed.

The parties will hand ; you sufficient funds in order to enable for you to comply with these instructions and in accordance with the original Escrew Instructions. EED OF INSTRUCTIONS.

EACH OF THE UNDERSIGNED STATES HE HAS READ THE FOREGOING INSTRUCTIONS
AND UNDERSTANDS AND AGREES TO THEM.

WHITTAKER CORPORATION,
a corporation

TI

Robert Leonard Kinnard

Bri



138

* - waster

STATE OF SUCCESSION

COUNTY OF Plusatch

State of Market State personally appeared Gloria Blair

State of Market State personally appeared Gloria Blair

Sometimes and for said

Sometimes of the State personally appeared Gloria Blair

Sometimes of the Succession of the Within insurprisely, and attenowledged to me that the executed the same.

Notary's Signature Glurino Moulions.

MAIL TAX STATEMENTS AS DIRECTED ABOVE

AND WHEN RECORDED MAIL TO

NORMAN S. BERLINER 1230 West Second Street Los Angeles, California 90026 RECORD OFFICIAL RECORD SAN PERMANDING COUNTY, CALL V. DENNIS WARDLE

520

1974 SEP 16 PM 12 47

3.00

SPACE ABOVE THIS LINE FOR RECORDER'S USE

THOMAS OWEN PETERS
c/o Trojan Fireworks Co.
P.O. Box 441
Norwalk, California

DOCUMENTARY TRANSPER TAK \$ 16.50

COMPUTED ON PULL VALUE OF PROPERTY CONVEYED.

OR COMPUTED ON PULL VALUE LESS LIBITS AND

ENCLUMEANICES REMAINING AT THE OF SAIR.

STATE OF THE PURPLE OF SAIR STATE OF SAIR.

From Name

Grant Deed

1 406 1 CA (1-70) THIS FORM FURINISHED BY TITLE IMBURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

ROBERT LEONARD KENNARD, a married man,

hereby GRANT(S) to

THOMAS OWEN PETPRS, a married man,

the following described real property in the County of San Bernardino

. State of California:

That portion of the south 660 feet of the northwest one-quarter of Section 28, Township 1 North, Range 5 West, San Bernardino Meridian, in the County of San Bernardino, State of California, according to Government Survey, described as follows:

Commencing at a point in the south line of said northwest one-quarter, distant north 89° 51' west, 1319.36 feet thereon from the center of said Section 28; thence along a line that bears north 0° 32' west, to a point that bears south 0° 32' east, 150.32 feet from the north line of said south 660 feet; thence south 79° 37' west to a point in the west line of said Section 28 for the true point of beginning; thence north 0° 37' 45" west, 390 feet to the northwest corner of the south 660 feet of the northwest one-quarter of said Section 28; thence south 89° 51' east 150 feet along said north line; thence south 0° 37' 45" east to a point in a line that bears north 79° 37' east from the true point of beginning; thence south 79° 37' west to the true point of beginning.

Dard August 6, 1974.

HOBERT LEONARD KENNARD

STATE OF CALIFORNIA COUNTY OF CALEBO

th AUBUST 13. 1974. Indian me, the underigned, a Notary Public in and for said Mate, presentally approxima-

Robert Leonard Kennard and Lydia Kennard

المعاومة المعاونين المسودان والوا

to be the person. S. whose name S. A.T. Autorified to the within instrument and acknowledged that fire y executed the same.

ATTNESS on ham and official oral.

Same HULLE SUL

Lorreine V. Diez

THE RIFE OF ROBERT LEONARD KENNARD



office while for Minks department and

Title Order No. ..

Error or Loan No.

Property Information for Parcel 1133-071-05-0000

Parcel	Parcel Status	Property ID	Tax Status	Use Code	Size	Land Type		Responsible Group	Responsible Unit
1133071050000	<u>A</u>		1	LT INDUST	<u>04</u>	<u>01</u>	FONTANA	D	СОМ

Current Owners

Name	R/I	% Int	Туре	Acquisition Date	Document Date	Inactive Date	Document N
Protected per CA. Govt. Code Sect. 6254,21	TR	0	<u>B</u>	01/01/1975	08/01/1996	NONE	962791400000

Legal Description

PTN S 660 FT NW 1/4 SEC 28 TP 1N R 5W COM AT PT IN S LI SD NW 1/4 DIST N 89 DEG 51 N FTTHEREON FROM CEN SD SEC 28 TH ALG A LI BEARING N 0 DEG 32 MIN W TO A PT THAT BEARS MIN E150.32 FT FROM N LI SD S 660 FT TH S 79 DEG 37 MIN W TO A PT IN W LI SD SEC 28 BEG TH NO DEG 37 MIN 45 SECONDS W 390 FT TO NW COR S 660 FT NW 1/4 SD SEC TH S 89 DE 150 FT ALG SD N LI TH S 0 DEG 37 MIN 45 SECONDS E TO PT IN LI THAT BEARS N 79 DEG 3 TRUE PT BEG THS 79 DEG 37 MIN W TO TRUE PT BEG 1.21 AC M/L

No Legal Reason for Change was found

No Active HOX Exemptions Found as of 01/27/2004

Property Information For Parcel 1133-071-05-0000

Type of Property: UNKNOWN

Legal Description

Tract Number	Lot Number	Block/Unit	
	00000	000	

Address Information

Situs Address	Protected per CA. Govt. Code Sect. 6254.21
	Protected per CA. Govt. Code Sect. 6254.21
	1996/09/27

PTN S 660 FT NW 1/4 SEC 28 TP 1N R 5W COM AT PT IN S LI SD NW 1/4 DIST N 89 DEG 51 MIN W 1319.36 FT THEREON FROM CEN SD SEC 28 TH ALG A LI BEARING N 0 DEG 32 MIN W TO A PT THAT BEARS S 0 DEG 32 MIN E 150.32 FT FROM N LI SD S 660 FT TH S 79 DEG 37 MIN W TO A PT IN W LI SD SEC 28 FOR TRUE PT BEG TH N 0 DEG 37 MIN 45 SECONDS W 390 FT TO NW COR S 660 FT NW 1/4 SD SEC TH S 89 DEG 51 MIN E 150 FT ALG SD N LI TH S 0 DEG 37 MIN 45 SECONDS E TO PT IN LI THAT BEARS N 79 DEG 37 MIN E FROM TRUE PT BEG TH S 79 DEG 37 MIN W TO TRUE PT BEG 1.21 AC M/L

Present Owner Information

Name	% Own	Relationship	Document No.	Recording Date		Roll Year
PETERS, THOMAS O TR		TRUST REVOCABLE	9627914000000	1996/08/01	1975/01/01	1975



Owner Name History for Parcel 1133-071-05-0000

Name	Owner Status	% Own	Relationship	Document No.	Recording Date	Acquire Date	Roll Year
PETERS, THOMAS O TR	Present Owner		TRUST REVOCABLE	9627914000000	1996/08/01	1975/01/01	1975
PETERS, THOMAS O TR	Past Owner	100	TRUST REVOCABLE	9535046700000	1995/10/10	1975/01/01	1996
PETERS, THOMAS O	Past Owner		SOLE OWNER	00000000000000			1975

Owner Name History for Parcel 1133-071-06-0000

Name	Owner Status	% Own	Relationship	Document No.	Recording Date	Acquire Date	Roll Year
PETERS, THOMAS O TR	Present Owner		TRUST REVOCABLE	9627914100000	1996/08/01	1974/09/16	1997
PETERS, THOMAS O TR	Past Owner	100	TRUST REVOCABLE	9535046600000	1995/10/10	1974/09/16	1996
PETERS, THOMAS O	Past Owner		SOLE OWNER	00000000000000			1975

Property Information For Parcel 1133-071-07-0000



Type of Property: UNKNOWN

Legal Description

Tract Number	Lot Number	Block/Unit
	00000	000

Address Information

Situs Address	Protected per CA. Govt. Code Sect. 6254.21
	Protected per CA. Govt. Code Sect. 6254.21
	1996/09/27

PTN S 660 FT NW 1/4 SEC 28 TP 1N R 5W COM AT NW COR SD S 660 FT TH E ALG N LI SD S 660 FT DIST OF 300 FT TO TRUE PT BEG TH CONT E TO NW COR OF PROPERTY CONVEYED TO JAMES G JEFFERYS AND WIFE BY DEED RECD DEC 31,1954 BK 3537 PG 326 OFFICIAL RECORDS TH S ALG W LI SD PROPERTY TO SW COR THEREOF TH S 79 DEG 37 MIN W TO PT WHICH IS N 79 DEG 37 MIN E 300 FT FROM W LI SD SEC TH N 330 FT M/L TO TRUE PT BEG 2.62 AC M/L

Present Owner Information

Name	% Own	Relationship	Document No.	Recording Date	Acquire Date	Roll Year
PETERS, THOMAS O TR		TRUST REVOCABLE	9627913900000	1996/08/01	1975/01/01	1975



SARWOOB CICI

TROJAN FIREWORKS CO. . 13550 EXCELSION DRIVE . NORWALK, CALIFORNIA 90650

adiross mail int P.O. Bon Idl reable address: TROJFIRE -phono (213) 721-1446 - (714) 521-6767

January 9, 1973



City of Rialto
Planning Commission
Hr. Richard E. Downing, Director
150 South Palm Avenue
Rialto, California 92376

Re: APPLICATION FOR CONDITIONAL DEVELOPMENT, 2-1/2 Acres N/E Corner Stonehurst and Alder Streets, Rialto, California

_Gentlemen:

he respectfully submit herewith our application for conditional development of the stated property, now located in the City of Rialto.

It is our intention to re-activate this plant and manufacture only California "safe and sane" commercial fireworks as approved by the State Fire Marshal for retail sale each fourth of July season. Although this facility was formerly licensed and used by American Explosives Company (AMEX) for production of military pyrotechnics, we do not intend to engage in the production of Class & explosives, but limit it to Class C only.

The plot plan submitted herewith indicates the proposed usage of existing structures. Storage, both existing and proposed, will most likely consist of only such raw materials as paper tubes, paper cones, corrugated shipping containers, adhesives, labels, etc. Chemical storage is scheduled for our facilities immediately to the north in the former government bunkers where we operate our display fireworks division, known as Astro Pyrotecratics. As goods are finished in this facility they will be dispatched to our Normalk warehouses via our own vehicular equipment, for finel assembly and packaging.

Any doubts as to the ability of our company to set-up, maintain and operate such a facility can readily be answered. The petitioner, 0. D. Peters, president, has over 27 years experience in this field, our vice-president, Mr. 8. W. Wells is probably one of the outstanding pyrotechnicians in the world

Continued

City of Rialto Planning Commission Page -2-January 9, 1973

(see resume attached), and the plant superintendent, Mr. Gerald Gerth is likewise well-versed in the field, being a graduate chemical engineer from California institute of Technology.

We look forward to favorable action on our application, and pledge our efforts to making this a production facility that will please the administrators and clizens of Rialto. If further facts or information is needed, please call on us.

Yours very truly,

TROJAN FIREWORKS CO.

O. D. Peters, President

ODP;dv

Enc.



PYRO'SPECTACULARS

September 1, 1988

Mr. Richard L. Roberts, Director
Emergency Management Program
Department of Environmental Health Services
385 North Arrowhead Avenue
San Bernardino, CA 92415-0160

Dear Mr. Roberts:

As you may, or may not know, Astro Pyrotechnics was recently sold to Pyro Spectaculars. As a result of this change we are submitting a new Business Plan covering the Astro Pyrotechnics division.

in addition, I am also submitting a revised Business Plan for Pyro Spectaculars covering some recent changes in management and site facilities.

If you have any questions, or need additional information, please let me know.

Sincerely,

PYROSPECTACULARS, INC.

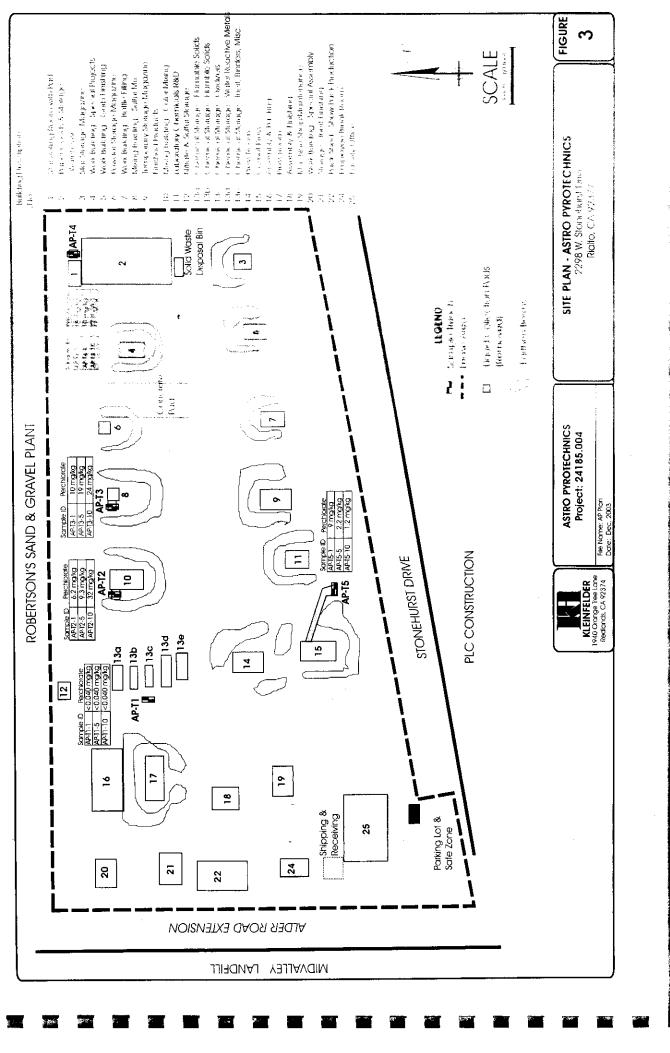
Dean B. Collister

Vice President - Operations

DBC/md

Enc: Astro Pyrotechnics Business Plan Pyro Spectaculars Business Plan









California Regional Water Quality Control Board

Santa Ana Region



Winston H. Hickox Secretary for Environmental Protection Internet Address: http://www.swrcb.ca.gov/rwqcb8 3737 Main Street, Suite 500, Riverside, California 92501-3348 Phone (909) 782-4130 - FAX (909) 781-6288

Gray Davis

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our website at www.swrcb.ca.gov/rwqcb8.

March 3, 2003

Mr. James Good Gresham, Savage, Nolan & Tilden, LLP 6000 North Arrowhead Avenue, Suite 300 San Bernardino, Ca 92401-1148

CONDITIONAL APPROVAL OF WORK PLAN FOR INITIAL PERCHLORATE INVESTIGATION AT ASTRO PYROTECHNICS – 2298 WEST STONEHURST DRIVE, RIALTO, SAN BERNARDINO COUNTY

Dear Mr. Good:

Board staff has reviewed the December 9, 2002 submittal entitled "Work Plan for Initial Perchlorate Investigation" for the Astro Pyrotechnics facility, located at 2298 West Stonehurst Drive, Rialto. The work plan was submitted by your environmental consultant (Kleinfelder), in compliance with the Investigation Order letter that I sent to you on November 6, 2002.

Members of the Inland Empire Perchlorate Regulatory Task Force provided comments on the work plan to us, and those technical comments were considered in preparing this response. Based on our review, I conditionally approve the proposed work plan, as modified by the comments described in this letter.

The Astro Pyrotechnics facility occupies approximately five acres of leased land located in the northeast corner of the intersection of Stonehurst Drive and the extension of Alder Avenue. The site consists of 25 buildings and storage units. The facility manufactures theatrical 1.4G fireworks and pyrotechnic articles for shipment to off-site, licensed professional customers. The facility receives raw materials (including chemicals and paper goods), and assembles various types of fireworks inside small work buildings.

Raw chemicals are stored in bulk in Unit Nos. 6, 12, and 13a through 13e, and laboratory chemicals are stored in Unit No. 11. Various other buildings are used for the manufacture and storage of firework products.

Four of the work buildings (Building Nos. 1, 8, 10, and 15) have concrete "liquid collector pads" situated adjacent to the building exit doors. These concrete collector pads are flat, rectangular areas with a shallow concrete rim, and are used for collecting the wastes that are generated during the fireworks manufacturing process. These wastes include powdered oxidizers (specifically potassium nitrate, potassium

California Environmental Protection Agency

perchlorate, and other perchlorate salts) that have been washed from the floors of the work buildings and into the concrete pad areas. According to Kleinfelder, the waste liquids and sludge that accumulate on these concrete pads are regularly pumped and scraped from the pads, then placed into plastic DOT-approved drums. The drums are shipped off-site for disposal.

Your work plan proposes that, during this initial phase of perchlorate investigation, Kleinfelder will review additional historical records (consisting of aerial photographs, building permits, property ownership records and other documents). This review will focus on information related to past and current site activities, areas of waste disposal, and other areas where releases of perchlorate might have occurred. The on-site locations for these activities will be identified and correlated with the existing site features. In addition, facility operations, process flow, chemical use, and waste streams at the Astro Pyrotechnics facility will be reviewed to develop additional understanding of the manufacturing processes that may have resulted in, or could result in, releases of chemicals to the soil and groundwater.

Field activities are also proposed in the work plan. Based on their review of information thus far, as well as their interviews and discussions with representatives of Astro Pyrotechnics, and in combination with their recent site reconnaissance, Kleinfelder is proposing an initial soil investigation of specific areas at the Astro Pyrotechnics facility. The proposed fieldwork at the Astro Pyrotechnics site consists of five exploratory trench excavations to collect soil samples for analysis of perchlorate. A backhoe is proposed to be used to excavate trenches at the following five locations:

- One trench in front of the oxidizer storage shed (Unit No. 13c).
- One trench adjacent to each of four liquid collector pads near Building Nos. 1, 8, 10, and 15.

Each trench is proposed to be excavated to a total depth of ten feet below ground surface (bgs). Soil samples are proposed to be collected at 1, 5, and 10 feet bgs. Each trench is proposed to be backfilled with the excavated soil, and the material compacted with the backhoe.

On February 6, 2003, Board staff visited the Astro Pyrotechnics facility. Mr. Gary Brown and several other staff from Pyro Spectaculars and Astro Pyrotechnics provided a tour of several of the work buildings, including those used for the manufacture of fireworks products. Board staff observed the concrete pads adjacent to the buildings, where accumulated liquids and sludge wastes that are generated during the manufacturing process are kept until transferred into the plastic drums and shipped off-site for disposal. According to Astro Pyrotechnics' staff, the accumulated liquids and sludge are kept in these open pads until most of water has evaporated and the volume of liquid has been reduced.

Based on the facility's current manufacturing operations (as described by Kleinfelder), and Board staff's observations of the liquid and sludge waste handling practices at the site, and considering the history of more than 20 years of pyrotechnics manufacturing at the site, we believe the proposed investigation of the liquid collector pads must be revised. The single trench adjacent to Unit No. 13C is acceptable as proposed. The four trench excavations in the vicinity of Buildings 1, 8, 10, and 15 must be performed in the soil immediately beneath the existing concrete pads, not adjacent to the pads as proposed.

In order to accomplish this task, it will be necessary to provide access for the backhoe at each concrete pad area, and excavate the soil directly beneath the pads to a minimum depth of ten feet bgs. The soil at this locality is known to be very coarse-grained, including small to medium-sized boulders, interbedded with finer-grained soils. During the excavation, samples of the finer-grained materials (such as silt, sand, or clay) must be collected from each trench, at the proposed depths of 1, 5, and 10 feet bgs. The samples must be transported to a California-certified analytical laboratory and analyzed for perchlorate, using US EPA Method 314.1, volatile organic compounds using US EPA Method 8260, and for electrical conductivity (salt content) using the saturation extract procedure.

We believe it is possible to perform each excavation in a manner that will minimize disturbance to the normal site operations. Therefore, you must make appropriate arrangements for the temporary storage of the waste materials that are associated with Building Nos. 1, 8, 10, and 15 (normally stored on the concrete pads).

A plan for temporary containment of the waste, to be implemented during the trenching activities at the site, must be submitted to me in writing by March 19, 2003. This plan must also describe the procedure for off-site disposal of the waste. In addition, we ask that you include a detailed time schedule for completing the field work and submitting the report of the results of the investigation. The plan will be subject to my approval.

The waste that is typically placed on the concrete pads and in plastic drums at this facility is a high salinity liquid or sludge, containing potassium nitrate, potassium perchlorate, and other perchlorate salts. Concrete is not an effective, permanent barrier to infiltration of liquid, and is therefore not an acceptable waste containment liner. In addition, the pads lack the capacity necessary to prevent overflow and runoff of waste from a 24-hour, 25-year storm event. Be advised that henceforth, these concrete pads will no longer be considered acceptable storage facilities for waste and wastewater at the Astro Pyrotechnics facility. Permanent facilities such as appropriately lined storage sumps or ponds, with ample capacity, as well as secondary containment for the drums that are stored on-site, must be proposed and installed. The design of these waste containment features will be subject to Board staff approval.

Please be aware that the need for additional site investigation of the soil and groundwater will be evaluated once this phase of investigation has been completed and Board staff has reviewed and evaluated the soil sampling results.

We request that all records and aerial photos that are made available to your consultant for review and evaluation also be made available to Board staff simultaneously, in advance of commencing your field investigation.

Please notify the following individuals at least 24 hours prior to all field work to allow for inspection and oversight as needed: Kamron Saremi, RWQCB, (909) 782-4303; Wendy Arano, DTSC, (714) 484-5480; and Peter Murphy, Kennedy/Jenks Consultants - Perchlorate Task Force, (949) 261-1577.

If you have any questions, please contact Kamron Saremi at (909) 782-4303, or you may call Ann Sturdivant, Chief of our Spills, Leaks, Investigations and Cleanups Section, at (909) 782-4904.

Sincerely,

Gerard J. Thibeault Executive Officer

CC:

Jorge Leon, SWRCB, Office of Chief Counsel Inland Empire Perchlorate Regulatory Task Force members (mailing list attached) James Souza, Gary Brown – Pyro Spectaculars/Astro Pyrotechnics

AES: Rialto perchlorate/13267/Astrowrkpla 03-03-03



NORMAN S. BERLINER ATTORNEY AND COUNSELOR AT LAW 330 SOUTH MISSION ROAD LOS ANGELES, CALIFORNIA 90033 (323) 269-8228

FAX (323) 266-1244

AES HI ALL

March 26, 2003

Mr. Kameron Saremi California Regional Water Quality Control Board - Santa Ana Region 3737 Main Street, Suite 500 Riverside, California 92501-3348

Re: Thomas O. Peters - Property at 2298 West Stonehurst Rialto, California

Dear Mr. Saremi:

As per our telephone conversation in regard to the above-entitled matter, I am enclosing herewith a copy of the "Preliminary Environmental Site Assessment and Limited Soil Sampling" for the property mentioned above referring to assessment made during February and March of 2003.

This document of very, very many pages was originally bound in a folder but came to me as loose pages.

To the best of my knowledge and belief, this document is complete but I do not understand the contents sufficiently to be absolutely sure.

If you find that anything is missing, please let me know and I will attempt to obtain it for you from the people that created this document.

This document was obtained by the prospective purchaser of the property involved, and whether or not the property will be sold will depend in great measure upon the reaction of the California Regional Water Quality Control Board's assessment and position with regard to any contamination that may be found.

My client, the owner, did not contribute to the contamination in any way and would like to determine whether or not the property is salable as is—and if there is a serious impediment due to contamination, then who are the responsible parties therefor.

Mr. Kameron Saremi

-2-

March 26, 2003

I thank you for your cooperation and information in this regard in the past; and, hopefully, with the enclosure, you can give me an even better opinion of the Control Board's position and requirements in this regard.

Please respond.

Very truly yours,

NORMAN S. BERLINER

NSB:1b Encl.



P.O. Box 231, Colton, CA 92324-0231 • 1355 E. Cooley Dr., Colton, CA 92324-3954 • Phone (909) 824-7210 • Fax (909) 824-7209

March 10, 2003

Varner, Saleson, and Brandt 3750 University Avenue, Suite 610 Riverside, California 92501 Attention: Mr. Bruce Varner Job No. 03095-9

Dear Mr. Varner:

Attached is the Preliminary Environmental Site Assessment and Limited Soil Sampling report prepared for the approximately 5-acre site, located at 2298 West Stonehurst Drive in the City of Rialto, San Bernardino County, California.

We appreciate the opportunity to provide environmental assessment services for this project. If you should have any questions or comments concerning this report, please contact this firm at your convenience.

Respectfully submitted,

C.H.J., INCORPORATED

Mark D. Walters, R.E.A.

Environmental Projects Manager

MDW/RJJ:tlw

Distribution: Varner, Saleson, and Brandt (1)

Matich Corporation (3)

PRELIMINARY ENVIRONMENTAL
SITE ASSESSMENT AND
LIMITED SOIL SAMPLING
2298 WEST STONEHURST DRIVE
RIALTO, CALIFORNIA
PREPARED FOR
VARNER, SALESON, AND BRANDT
JOB NO. 03095-9



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PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT
AND LIMITED SOIL SAMPLING
2298 WEST STONEHURST DRIVE
RIALTO, CALIFORNIA
PREPARED FOR
VARNER, SALESON, AND BRANDT
JOB NO. 03095-9

1.0 INTRODUCTION

During February and March of 2003, a preliminary environmental site assessment (Phase I) and limited soil sampling were performed by C.H.J., Incorporated (CHJ) for the subject site, located at 2298 West Stonehurst Drive, in the City of Rialto, San Bernardino County, California. The purpose of this assessment was to determine the potential for significant environmental contamination at the site. The contents of this report are intended to address general lender guidelines for site assessments, as well as specific client concerns.

2.0 SCOPE OF WORK

The scope of work and authorization for this Phase I and limited soil sampling were specified in our prior verbal discussions with Mr. Wayne Hendrix, of Matich Corporation, and yourself. As agreed upon, our assessment included determination of:

- The past and current uses of the site
- Potential contamination sources at the site
- Proximity of known or potentially contaminated properties near the subject site and their impact on the site
- Documented hazardous waste disposal on or near the site

To provide information for these determinations the following studies were conducted:

- Reconnaissance of the property and adjacent areas
- Interviews with individuals familiar with current and/or past usages of the property, if available
- Review of historic aerial photographs and other historical data
- Review of published lists of potential contamination sources, including the U.S. EPA National Priorities List and CERCLIS, Regional Water Quality Control Board Leaking Underground Tank Data Base, Identified Hazardous Waste Sites in San Bernardino County, and other available applicable lists



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- Submit request to San Bernardino County Fire Department, Hazardous Materials Division for review of files regarding releases, spills, dumping, contamination, clean-up action, or storage of hazardous materials or waste on the site
- Provide limited near-surface soil sampling and laboratory analyses of specified areas of concern with respect to the current and historic usage of the subject site

3.0 SITE DESCRIPTION

The subject site is an approximately 5-acre parcel of land located at 2298 West Stonehurst Drive in the City of Rialto, San Bernardino County, California. An Index Map and Site Map are provided as Enclosures "A-1" and "A-2", respectively.

3.1 Site Reconnaissance

At the time of our site reconnaissance, the subject site consisted of a generally rectangular parcel of land occupying approximately 5 acres. The subject site was located at the western terminus of West Stonehurst Drive and was occupied by a fireworks manufacturing facility (Astro Pyrotechnics). The fireworks facility was comprised of numerous structures identified in detail on our attached Site Map (Enclosure "A-2"). On-site structures included a residential style office located in the southwestern corner of the subject site. An employee break room, facility maintenance areas, and final product packaging buildings were located to the north of the main office. Receiving and storage areas for incoming chemicals were located in the north central portion of the subject site. Weighing and mixing related buildings were located to the east of the storage areas, and numerous scattered buildings associated with the final preparation of fireworks were located in the eastern and southeastern portions of the property. These final preparation areas generally consisted of small buildings or temporary storage containers which were isolated for safety purposes and surrounded by earthen berms. Access to the various on-site structures was available through numerous on-site dirt roads. The entire site was fenced and the primary access point was in the southwest corner, adjacent to the on-site office.

Small earthen water containment berms were identified adjacent to many of the on-site facilities, primarily the press rooms and areas utilized for chemical mixing and storage. These earthen basins were lined with plastic and were partially full at the time of our site visit due to recent rainfall. Additionally, 55-gallon storage drums utilized for the collection of on-site chemical waste were scattered throughout the property primarily in the chemical storage area, as well as the areas utilized for chemical weighing and mixing. According to the site manager (Mr. Leo Autote, Jr.), the 55-gallon



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waste drums were utilized to collect the residue from each bermed area once evaporation of the collected water had occurred. Two above-ground fire suppression water tanks were noted in both the east central and west central portions of the property. The containers utilized for storing on-site chemicals prior to usage were generally of metal construction and were typically mobile-type storage containers with no significant pathways to surface soils. Due to a historic on-site fire, remnants of former structures were apparent, including a large concrete pad in the northeastern portion of the property.

General on-site housekeeping appeared to be good at the time of our site reconnaissance. With the exception of a slightly depressed area of darkened soils located immediately south of the powder storage room (see Site Map, Enclosure "A-2"), no significantly stained soils were noted during our site reconnaissance. On-site vegetation was generally absent from the subject site, with the exception of land-scaped areas immediately surrounding the on-site office in the southwestern corner of the property.

No evidence was discovered during our site visit of underground storage tanks (USTs), above-ground storage tanks (ASTs), or electrical transformers.

3.2 Adjacent Property Land Use

The subject site was bounded to the north by a cement truck parking lot (dirt) associated with a Robertson's Ready Mix facility located further to the north. The subject site was bounded to the west by a dirt access road associated with the Robertson's Ready Mix yard, as well as the northern terminus of Alder Avenue. The eastern edge of a county landfill was readily apparent further to the west and northwest of the subject site, beyond Alder Avenue. The subject site was bounded to the south by West Stonehurst Drive. Several construction materials related facilities were located to the south and southeast of the subject site, beyond West Stonehurst Drive. The subject site was bounded to the east by an open yard for the storage of construction equipment and construction materials.

3.3 General Geologic and Hydrologic Setting

The subject site is located in the Chino Basin. The Chino Basin is a sedimentary basin bounded by major faults and resistant hills. This basin, which is underlain by the Perris Block, a relatively stable down-dropped structural block of bedrock, is bounded by the active San Jacinto Fault Zone to the northeast, the Puente Hills fault and the potentially active Chino-Corona Segment of the Elsinore fault zone to the west and the San Gabriel Mountains to the north (California Division of Mines and Geology, 1976).



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The subject site is mapped as being underlain by Quaternary-age alluvial fan deposits (Morton, 1974). The northwest to southeast trending San Jacinto fault zone is located approximately 2.2 miles to the northeast (Morton, 1974), and the northwest to southeast-trending San Andreas fault zone is located approximately 6.0 miles to the northeast (Morton, 1974).

The subject site lies within the Upper Colton-Rialto Hydrologic Subarea of the Santa Ana Drainage Province (Department of Water Resources, 1971). The depth to groundwater (regional aquifer) was mapped as being approximately 400 feet below ground surface (bgs) in 1960 (California Division of Mines and Geology, 1976). The depth to groundwater (regional aquifer) in State Well No. 01N/05W-28J(02), located approximately 0.5 mile to the southeast, was 390.25 feet bgs on October 23, 2001 (Western Municipal Water Department, 2002). The groundwater gradient is anticipated to be generally to the southeast towards the Santa Ana River.

4.0 SITE HISTORY AND LAND USE

4.1 Aerial Photograph Review

Aerial photographs taken in 1938, 1978, 1986, 1991, and 1996 were reviewed for historical usage of the subject site. These photographs are on file with the San Bernardino County Flood Control District and the specific coverage is provided as Enclosure "B". Due to the absence of several photographs, coverage was somewhat limited at the time of our visit. Review of these photographs indicated that the subject site generally consisted of vacant land at the time of the earliest photographs reviewed (1938). The subject site generally consisted of an industrial yard from the late 1960s until the date of the most recent photographs reviewed (1996).

Review of the 1938 aerial photographs indicated that the subject site and surrounding properties consisted of generally vacant, undeveloped land occupied by a scattered growth of shrubs. An undeveloped graded area was noted further to the northwest of the subject site.

Review of the 1978 aerial photographs indicated that the subject site was generally in its current state of development, with the exception of the absence of several small work buildings and associated earthen berms in the southeastern portion of the site. No significant staining of surficial soils was noted, and the site appeared to be fully fenced. Adjacent properties to the west and east of the subject site were generally vacant with the exception of a building located approximately 300 feet to the east of the subject site. A heavily industrial area, including numerous bunker-type earthen storage facilities was



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located to the northwest, north, and northeast of the subject site. The bunker complex extended approximately 1/4 mile further to the northwest of the subject site. Properties to the south of West Stonehurst Drive were generally in their current state of development with numerous commercial and industrial businesses.

Review of the 1986 aerial photographs indicated no significant changes to the subject site, with the exception of the addition of numerous smaller structures to the central portion of the site. Adjacent land to the east and south of the subject site was unchanged from the previous aerial photographs reviewed. The bunker storage complex was still evident to the north and northwest of the subject site, although a reduction in overall activity in this area was evident at the time of these photographs. Development of the current county landfill was noted to the west of the subject site.

Review of the 1991 aerial photographs indicated that the subject site and adjacent properties to the west, south, and east of the subject site were generally in their current state of development. On-site development appeared to reflect the facility layout identified during our recent site reconnaissance. With the exception of a slight decline in apparent activity, the bunker storage complex was still evident to the north and northwest of the subject site at the time of these photographs.

Review of the 1996 aerial photograph indicated no significant changes to the subject site or adjacent properties. Significant commercial and industrial development was apparent further to the east and northeast of the subject site.

4.2 City of Rialto Building Departments Records Review

A review of records on file with the City of Rialto's Building Department for the subject site address 2298 West Stonehurst Drive was conducted. Available records included numerous building and utility permits for the on-site structures dated 1967. Additional permits associated with post-fire repair/construction were dated 1976 and 2000. Permits for underground structures, such as clarifiers and USTs were not identified within the available records. The Building Department permit information was provided by the City of Rialto's Building Department personnel.

4.3 County Assessor Records Review

According to the available information at the County of San Bernardino Assessor's office, located in the City of San Bernardino, California, as well as information provided by the client, the subject site consists of three separate parcels totaling 5.03 acres. One address (2298 West Stonehurst Drive) was



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identified for the subject site parcels. The three Assessor's Parcel Numbers associated with the subject site include 1133-071-005, 1133-071-006, and 1133-071-007.

4.4 Site Contact Interview

At the time of our site reconnaissance, an on-site interview was conducted with Mr. Tim Stockton and Mr. Leo Autote, Jr. It was our understanding that Mr Stockton was involved with the chemical composition and analysis portion of the fireworks business, and that Mr. Autote was the overall plant manager for the facility. Based on information provided during our interview, the subject site has been operating as Astro Pyrotechnics since approximately 1987. From approximately 1971 to 1987, the subject site was operating as Trojan Fireworks (Freedom Fireworks). Prior to 1971, the subject site was operating as a manufacturing facility for flares (Amex). Mr. Autote described the collection and disposal of on-site wastewater and product as previously mentioned in the site description section of this report and identified by Environmental Dynamics as the company responsible for periodic (every one to three months) pick up and disposal of the on-site waste drums. According to Mr. Autote, the current method of collection and disposal and on-site waste has been in affect for many years, and he was not aware of any significant releases to the soil during his time of employment on site.

4.5 Topographical Map Review

Historical maps published by the U.S. Department of the Interior, U.S. Geological Survey, for the subject site and vicinity were reviewed. The 7.5 minute Devore Quadrangle, dated 1966 and photo revised in 1980, was utilized for the subject site and is summarized below.

1966: West Stonehurst Drive was in place, and a single on-site structure (current office) was noted in the southwestern most corner of this site. Numerous structures (ordinance bunkers) and associated access roads were located to the north and northwest of the subject site. Alder Avenue was noted along the site's western boundary, and several additional scattered structures were noted to the east of the subject site and to the southeast and south of the subject site, beyond West Stonehurst Drive.

1980: Three additional structures were noted in the northern and eastern portions of the subject site at the time of the 1980 photo revision. Additional structures and associated roads were apparent to the north of the subject site and to the south of the site, beyond West Stonehurst Drive.



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4.6 Other Historical Sources

Based on the historically rural nature of the subject site and surrounding properties, Sanborn Fire Insurance Maps for the subject site and immediate vicinity were not readily available.

5.0 REGULATORY AGENCY RECORDS REVIEW

County, State, and Federal listings were compiled and searched by a nationwide regulatory agency database company, Environmental Data Resources (EDR)., and reviewed by CHJ. The listings/database were searched by EDR for sites located within 1 mile (or less) of the subject site, in accordance with the standards promulgated by the American Society for Testing and Materials (ASTM) for Phase I Environmental Site Assessments (ASTM E1527-94). The actual distances searched for each listing/database (federal and state) are indicated within the information provided by the EDR report included as Enclosure "C" of this report. Additional explanations of the Federal and State listings are provided in the portion of the EDR report entitled "Government Records Searches/Data Currency Tracking". Any relevant discussions concerning "unmapped" sites are presented within the respective sections.

5.1 County of San Bernardino Fire Department

5.1.1 A request for records review specific to the subject site was submitted to the County of San Bernardino Fire Department's Hazardous Materials Division. This review included any County available information regarding underground storage tanks (USTs), hazardous waste generators, hazardous material handlers, and emergency response records specific to the subject site. The presence of underground tanks, hazardous waste generators, and hazardous material handlers does not necessarily indicate the existence of contamination. However, this information may indicate if there are potential contamination sources in the site vicinity.

The official response from the County indicated that **records were found** for the subject site address. A summary of any significant findings made during a review of available County records is provided below.

• Records associated the removal of a single 1,000-gallon gasoline UST and associated dispenser were identified. The tank was removed in June of 1997 by Secor International, Inc. with County oversight. The results of soil sampling collected beneath the former tank and dispenser island indicated no significant releases of hydrocarbons, and a County closure letter for the subject site (associated with the tank removal) was issued on July 10, 1997. A copy of the County closure letter is provided in Enclosure "G" of this report.



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- A County inspection letter and associated Notice of Violation, dated June 1997, were reviewed, as well as numerous additional inspection records. The June 1997 County letter refers to soil staining associated with a hydraulic oil leak, the release of wastewater from the shallow bermed collection areas, and an absence of copies of appropriate disposal certifications which had not been received by the County at the time of their follow up letter. The County letter identified nine specific areas requiring attention and/or correction. A copy of the County letter and associated Notice of Violation are provided in Enclosure "G".
- Numerous forms and fee receipts for the permitting of the subject site as a small quantity hazardous materials handler and hazardous waste generator were identified in the County file.
- An inventory listing of used or stored hazardous materials and/or wastes on the subject site, dated 1997, was identified in the County file, and a copy is provided in Enclosure "G".
- Reference to a on-site explosion at the facility (Trojan Fireworks), dated 1987, and reference to an associated employee death were made in the County file.

No other significant records associated with subject site were readily available during the County review. It is our understanding that records associated with a groundwater contamination issue in the site vicinity are being overseen by the California State Department of Toxic Substances Control. These records were not readily available at the time of the issuance of this report.

5.1.2 EDR conducted a search of the County of San Bernardino Fire Department's HMD permitted facilities, dated January 2002. This listing includes USTs, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil handlers/generators. This review indicated that neither the subject site nor vicinity locations were included on the listing.

5.2 State of California

5.2.1 The California Hazardous Waste Sites (CAL-SITES) list, dated November 2002, which combines the former Abandoned Sites Program Information System (ASPIS) and the State Superfund list, was compiled by EDR to check for the inclusion of the subject site and facilities located within a 1 mile radius of the subject site. EDR conducted a database search to a radius of 1 mile for SPL sites (Annual Work Plan, or State Superfund sites, and high priority sites) and 1/2 mile for SCL sites (medium/low priority and no further action sites). The subject site was not included in either search, and no SPL or SCL facilities were identified by EDR within a 1 mile and 1/2 mile radius of the subject site, respectively.



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- 5.2.2 The California Identified Hazardous Waste and Substance Sites (CORTESE), dated April 2001, lists hazardous waste and substance sites compiled according to Assembly Bill 3750 (CORTESE, Chapter 1048, Statutes of 1986). The information included in this list comes from the State Department of Health Services (public drinking water wells and detectable levels of contamination, hazardous substances sites selected for remedial action, and site with known toxic materials identified through the Abandoned Sites Assessment Program), the State Water Resources Control Board (sites with USTs having a reportable release), and the California Waste Management Board (all solid waste disposal facilities from which there is known migration). These lists were compiled by EDR and reviewed by CHJ to check for the inclusion of the subject site and properties located within a 1 mile radius of the subject site. The subject site and adjacent properties do not appear within this publication. There was, however, one CORTESE facility (Rib Roof) identified within a 1/2 to 1 mile radius of the subject site. This facility is further summarized in the attached EDR report.
- 5.2.3 The California Toxic Pits Clean-Up Act Sites (Toxic Pits), dated February 1995, identifies sites that are subject to the Toxic Pit Clean-Up Act. This list, which references sites suspected of containing hazardous substances where cleanup has not yet been completed, was compiled by EDR and reviewed by CHJ to check for the inclusion of the subject site and properties located within a 1/2 mile radius of the subject site. The subject site is not listed within this publication, and no Toxic Pits facilities were identified within a 1/2 mile radius of the subject site.
- 5.2.4 The California Underground Storage Tank Registrations listing, dated January 2003, and the Above Ground Storage Tank Database, dated November 2002, which list all registered USTs and ASTs in the State of California, were compiled by EDR. This information was reviewed by CHJ to check for the inclusion of the subject site and adjacent facilities. Neither the subject site nor any adjacent facilities were included in this listing. A historical UST registered database listing provided by EDR and dated October 15, 1990, indicated one historical UST site 1/8 mile east of the subject site, along West Stonehurst Drive. This facility is further summarized in the attached EDR report.
- 5.2.5 The EDR report includes research of two leaking underground storage tank (LUST) databases: The LUST Information System (LUSTIS) published by the California EPA, dated January 2003, and the Region 8 Leaking Underground Storage Tank Listing, dated December 2002, published by the California Regional Water Quality Control Board's (CRWQCB). These databases were searched by EDR for sites located within a 1/2 mile radius of the subject site. The subject site does not appear on these databases, and no LUST facilities were identified within a 1/2 mile radius of the subject site.



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- 5.2.6 The Solid Waste Information System (SWIS) database, maintained by the California Integrated Waste Management Board, dated December 2002, was reviewed by EDR for landfills within a 1/2 mile radius of the subject site. The subject site does not appear on this listing; however, one SWIS facility (Hudson & Odham Tire Company), located at 3040 Locust Avenue, was identified approximately 1/4 to 1/2 mile east to southeast of the subject site. This facility is further summarized in the attached EDR report.
- 5.2.7 EDR conducted a search of the California EPA Deed Restriction Properties Report, dated January 2003, for facilities subject to hazardous materials investigations within a 1/2 mile radius of the subject site. Neither the subject site nor any other facilities within a 1/2 mile radius of the subject site were identified on this listing.
- 5.2.8 Several state and/or local supplemental databases were included within the search of pertinent records. The subject site was not included on any of the supplemental databases. There were, however, three facilities identified within a 1/8 mile radius of the subject site. These facilities are summarized further in the attached EDR report.

5.3 Federal Government

- 5.3.1 The United States Environmental Protection Agency (USEPA) National Priorities List (NPL) or Superfund Listing, dated October 2002, and the Comprehensive Environmental Response, Compensation and Liability Information Source (CERCLIS), dated December 2002, which lists all sites receiving or potentially eligible to receive Superfund investigation and/or remediation assistance in California, were compiled by EDR. The NPL sites were reviewed for facilities within a 1 mile radius, and CERCLIS sites were reviewed for facilities within a 1/2 mile radius. The subject site is not included on the NPL or CERCLIS listings, and no NPL facilities were identified within a 1 mile radius of the subject. However, Denova Environmental, Incorporated, identified at 2824 North Locust Avenue, was identified 1/4 to 1/2 mile east/southeast of the subject site on the CERCLIS listing. This facility is further summarized in the attached EDR report.
- 5.3.2 The USEPA Resource Conservation and Recovery Information System (RCRIS) listing, dated September 2002, was compiled by EDR. This listing includes selective information on sites which generate, transport, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) as well RCRA violation facilities. This listing was reviewed for



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treatment, storage or disposal facilities (TSDs) and for TSD facilities with RCRA violations within a 1/2 mile and 1/4 mile radius, respectively, of the subject site. The subject site does not appear in either of these listings, and no TSD or RCRA Violator facilities were identified by EDR within a 1/2 mile and 1/4 mile radius of the subject site, respectively.

The RCRIS listings were also compiled by EDR for small quantity generators (SmGen) and large quantity generators (LgGen) within a 1/8 mile radius of the subject site. The subject site and several adjacent properties were identified as hazardous materials handlers and hazardous waste generator facilities. These facilities are further summarized in the attached EDR report.

- 5.3.3 The USEPA Emergency Response Notification System (ERNS) list, dated December 201, which lists spill records and information on reported releases of oil and hazardous substances was compiled by EDR to check for the inclusion of the subject site and facilities located within a 1/8 mile radius of the subject site. The subject site does not appear within this publication, and no ERNS facilities were identified on adjacent properties (within 1/8 mile).
- 5.3.4 The Toxic Release Inventory System (TRIS), dated December 2000, lists facilities subject to reporting under Section 313 of the Emergency Planning and Community Right To Know Act (Sara Title III) of 1986. The subject does not appear within this publication, and no TRIS facilities were identified on adjacent properties (within 1/8 mile).
- 5.3.5 EDR conducted a review of the USEPA RCRA Corrective Action Sites (CORRACTS) list, dated September 2002. CORRACTS facilities are those that are undergoing corrective action as a result of a release of hazardous waste or constituents into the environment from a RCRA facility. The subject site does not appear on the listing and no CORRACTS facilities were identified within a 1 mile radius of the subject site.
- 5.3.6 Research of available environmental records pertaining to the subject site and vicinity also included several supplemental federal and state/local databases. The subject site and facilities within a 1 mile radius of the site were not listed on any of the supplemental federal databases. There were, however, several state and/or local supplemental database facilities located within a 1/4 mile radius of the subject site. These facilities are further described in the attached EDR report.



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5.3.7 EDR identified three facilities on regulatory databases that were considered to be unmappable. Based upon observations conducted during the subject site vicinity reconnaissance, these unmapped facilities are not considered to be located within specified search radii.

With the exception of the regional groundwater issue described in section 7.2 of this report, the potential for contamination originating from off-site locations identified in the EDR report is, in our opinion, sufficiently removed from the site or not of a magnitude that is anticipated to create a significant impact to the site.

5.4 Underground Pipelines

No indications of large high pressure gas or petroleum product lines on or adjacent to the subject site were observed during site reconnaissance or documented on oil and gas pipeline maps (Pennwell, 1983).

Small, natural gas distribution pipelines are typically located under and adjacent to street or right-of-way areas. This type of gas pipeline may be located along street(s) in the vicinity of the subject site (West Stonehurst Drive). Service lines can be expected to extend from the distribution lines to individual users of developed site.

6.0 LIMITED SOIL SAMPLE COLLECTION AND ANALYSES

Based on the current usage of the subject site and the former usage of the site as a flare manufacturing facility, a limited soil sampling program was initiated with the approval of the client to investigate the near-surface soils.

6.1 Sample Locations

Based on the information gathered to date as part of the Phase I investigation, near-surface soil samples were collected at a representative number of on-site locations to investigate the potential for residual chemical contamination. The sample locations were concentrated in areas likely to receive suspect storm water runoff and adjacent to areas of significant chemical usage. The samples were collected from a depth of approximately 12 inches bgs with the aid of a stainless steel trowel. A total of 10 soil samples were collected throughout the subject site and were subsequently analyzed. The attached Sample Location Map (Enclosure "A-3") indicates the approximate sample locations.



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6.2 Sampling and Decontamination Procedures

Prior to sampling and between samples, all equipment was decontaminated in a detergent solution and rinsed twice with potable water to ensure that cross-contamination of samples did not occur. The sample packaging consisted of placing the soil directly into laboratory-cleaned glass jars with Teflon-lined lids. The samples were labeled with the job number, sample number, depth, date, and time of collection and placed directly into a thermally-insulated container with Blue Ice. The samples were transported under chain-of-custody protocol (Enclosure "D") to a State of California Department of Health Services certified laboratory for analytical testing.

6.3 Laboratory Analyses

Based on the current and historical usage of the property, all samples were analyzed for Perchlorate by EPA Method 314. Additionally, three of the 10 soil samples were analyzed for Cam Metals by EPA Method 6010.

6.4 Analytical Results

The analytical test results indicated detectable levels of Perchlorate in eight of the 10 samples collected. Concentrations generally ranged from 49 micrograms/kilogram (ppb) to 500 ppb. One sample (Sample No. S-6) obtained a result of 55,000 ppb or 55 parts per million (ppm) of Perchlorate. This sample underwent dilution at the laboratory in order to obtain a reading within the limits of the laboratory equipment.

The analytical results for metals testing on Samples No. S-1, S-2, and S-8, indicated levels below the total threshold limit concentration for each analyzed constituent. Sample No. S-8, however, was identified with a chromium concentration of 120 ppm. Although this concentration does not immediately identify the material as a hazardous waste, the soluble threshold limit concentration test would need to be conducted (based on the correlation obtained) to eliminate the potential that this material will be considered a hazardous waste.

The specific analytical results for all soil samples analyzed are summarized in Enclosure "E".

7.0 CONCLUSIONS

At the time of our site reconnaissance, the subject site consisted of a generally rectangular parcel of land occupying approximately 5 acres. The subject site was located at the western terminus of West Stone-



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hurst Drive and was occupied by a fireworks manufacturing facility (Astro Pyrotechnics). The fireworks facility was comprised of numerous structures identified in detail on our attached Site Map (Enclosure "A-2"). On-site structures included a residential style office located in the southwestern corner of the subject site. An employee break room, facility maintenance areas, and final product packaging buildings were located to the north of the main office. Receiving and storage areas for incoming chemicals were located in the north central portion of the subject site. Weighing and mixing related buildings were located to the east of the storage areas, and numerous scattered buildings associated with the final preparation of fireworks were located in the eastern and southeastern portions of the property. These final preparation areas generally consisted of small buildings or temporary storage containers which were isolated for safety purposes and surrounded by earthen berms. Access to the various on-site structures was available through numerous on-site dirt roads. The entire site was fenced and the primary access point was in the southwest corner, adjacent to the on-site office.

Small earthen water containment berms were identified adjacent to many of the on-site facilities, primarily the press rooms and areas utilized for chemical mixing and storage. These earthen basins were lined with plastic and were partially full at the time of our site visit due to recent rainfall. Additionally, 55-gallon storage drums utilized for the collection of on-site chemical waste were scattered throughout the property primarily in the chemical storage area, as well as the areas utilized for chemical weighing and mixing. According to the site manager (Mr. Leo Autote, Jr.), the 55-gallon waste drums were utilized to collect the residue from each bermed area once evaporation of the collected water had occurred. Two above-ground fire suppression water tanks were noted in both the east central and west central portions of the property. The containers utilized for storing on-site chemicals prior to usage were generally of metal construction and were typically mobile-type storage containers with no significant pathways to surface soils. Due to a historic on-site fire, remnants of former structures were apparent, including a large concrete pad in the northeastern portion of the property.

General on-site housekeeping appeared to be good at the time of our site reconnaissance. With the exception of a slightly depressed area of darkened soils located immediately south of the powder storage room (see Site Map, Enclosure "A-2"), no significantly stained soils were noted during our site reconnaissance. On-site vegetation was generally absent from the subject site, with the exception of land-scaped areas immediately surrounding the on-site office in the southwestern corner of the property.



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No evidence was discovered during our site visit of underground storage tanks (USTs), above-ground storage tanks (ASTs), or electrical transformers.

The subject site was bounded to the north by a dirt cement truck parking lot associated with a Robert-son's Ready Mix facility located further to the north. The subject site was bounded to the west by a dirt access road associated with the Robertson's Ready Mix yard, as well as the northern terminus of Alder Avenue. The eastern edge of a county landfill was readily apparent further to the west and northwest of the subject site, beyond Alder Avenue. The subject site was bounded to the south be West Stonehurst Drive. Several construction materials related facilities were located to the south and southeast of the subject site, beyond West Stonehurst Drive. The subject site was bounded to the east by an open storage yard for construction equipment and construction materials.

7.1 Soil Contamination

No evidence of commercial dumping or waste disposal on the site was documented in the available records we reviewed or observed during our site reconnaissance and aerial photograph review. With the exception of the area of darkened soils previously identified, the site reconnaissance revealed no significant staining or discolored vegetation. No evidence was discovered of USTs, ASTs, or electrical transformers.

Based on the information gathered to date as part of the Phase I investigation, near-surface soil samples were collected at a representative number of on-site locations to investigate the potential for residual chemical contamination. The sample locations were concentrated in areas likely to receive suspect storm water runoff and adjacent to areas of significant chemical usage.

Based on the current and historical usage of the property, all samples were analyzed for Perchlorate by EPA Method 314. Additionally, three of the 10 soil samples were analyzed for Cam Metals by EPA Method 6010.

The analytical test results indicated detectable levels of Perchlorate in eight of the 10 samples collected. Concentrations generally ranged from 49 micrograms/kilogram (ppb) to 500 ppb. One sample (Sample No. S-6) obtained a result of 55,000 ppb or 55 parts per million (ppm) of Perchlorate.



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The analytical results for metals testing on Samples No. S-1, S-2, and S-8, indicated levels below the total threshold limit concentration for each analyzed constituent. Sample No. S-8, however, was identified with a chromium concentration of 120 ppm. Although this concentration does not immediately identify the material as a hazardous waste, the soluble threshold limit concentration test would need to be conducted (based on the correlation obtained) to eliminate the potential that this material will be considered a hazardous waste.

Potential soil contamination from adjacent land uses is considered to be minimal based on the site reconnaissance.

Based on a conversation with a San Bernardino County HMD Inspector, Mr. Curtis Brundage, the Perchlorate results, although generally low, would likely require significant additional sampling and investigation to determine vertical and lateral extent of Perchlorate contamination. Mr. Brundage also stated that no maximum level of Perchlorate in soil had been established for the area and that the determination would be on a case by case basis. A maximum groundwater concentration of 4 parts per billion (ppb) had been identified.

7.2 Groundwater Contamination

The subject site is situated over a portion of the Santa Ana Drainage Province known to be impacted by Perchlorate. Numerous water wells in the vicinity are being investigated or have been removed from production since the identification of the Perchlorate plume. In addition, numerous additional wells are threatened by the contaminated groundwater further to the southeast of the subject site. Based on our review of available records, the potential for the existence of contaminated groundwater beneath the subject site is high. Additionally, due to the current and historic site usage of Perchlorate associated with the manufacturing of fireworks and/or flares, as well as the elevated concentrations of Perchlorate in the shallow surface soils identified on site, the potential for the subject site becoming a potentially responsible party for existing regional groundwater contamination is, in our opinion, high.

If groundwater development is proposed at the site, additional investigations and research specific to groundwater quality at the site and in the vicinity should be conducted.



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8.0 RECOMMENDATIONS

Based on the results of the limited on-site soil sampling, it is recommended by CHJ, based on current County requirements, that the laboratory analyses data, as well as a copy of this report be submitted to the County by the site owner for review. This submission is necessary based on a Perchlorate "release" currently known to impact at least the surface soils at the subject site.

An expanded and comprehensive on-site sampling program, which may include more sampling locations, additional laboratory analyses, and possible groundwater investigations, should be considered in order to further delineate on-site contamination, as well as the possible contribution of current or historic subject site activities to the regionally-impacted groundwater. Any future on-site investigations should be conducted with County oversight to ensure compliance.

The darkened soils noted on site should be removed and disposed of properly. If discolored soils, soils with an unusual odor, or undocumented subsurface structures are encountered during future development on the site, this firm or similarly qualified firm should be contacted and work discontinued in that particular area until an evaluation of the soils can be made.

If groundwater development is proposed at the site, additional investigations and research specific to groundwater quality at the site and in the vicinity should be conducted.

9.0 LIMITATIONS

C.H.J., Incorporated has performed our services within the limits prescribed by our client with no vested interest in the site or in the subject matter contained in the report and with the usual thoroughness and competence of the engineering profession. C.H.J., Incorporated makes no other warranty or representation, either express or implied.

The conclusions and recommendations in this report are based upon the research and site reconnaissance described in this report. This site assessment was limited to surficial investigative methods, and does not address site specific subsurface conditions. Should conditions be encountered in the field that appear different than those described in this report, we should be contacted immediately in order that we might evaluate their effect. Site conditions are subject to change with time, and should be evaluated



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within this context. C.H.J., Incorporated shall not be responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time the assessment was performed.

If this report or portions thereof are provided to others, it should be understood by all parties that it is provided for information only, and should be used as such.

This report and its contents resulting from this investigation are not intended or represented to be suitable for reuse on extensions or modifications of the project or for use on any other projects.

10.0 CLOSURE

We appreciate this opportunity to provide environmental assessment services for this project. If you should have any questions or comments regarding this report, please contact this firm at your convenience.

Respectfully submitted,

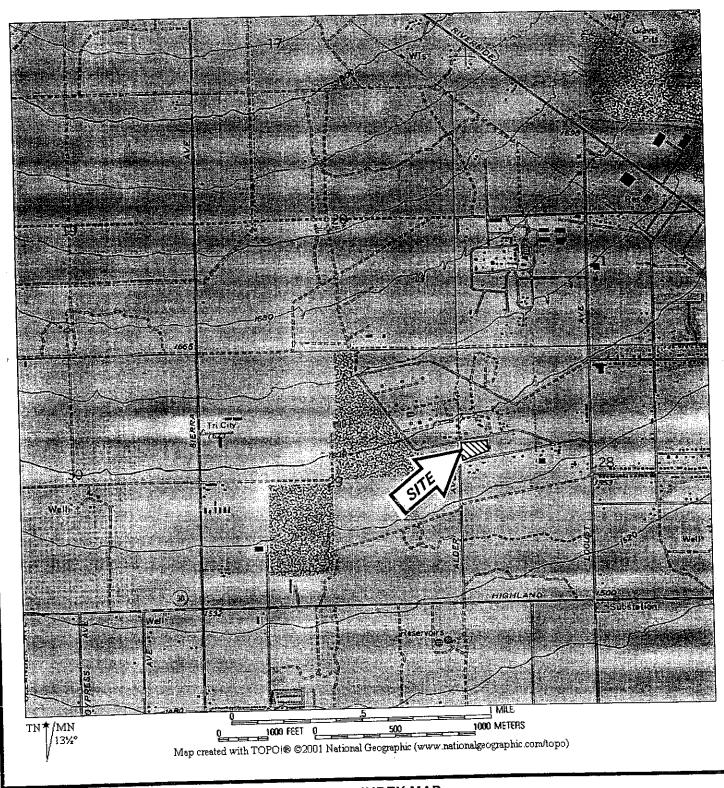
C.H.J., INCORPORATED

Mark D. Walters, R.E.A. 7138 Environmental Projects Manager

bert J. Johnson, R.C.E. 27060

Senior Vice President

ENCLOSURE "A" MAPS



INDEX MAP

FOR:

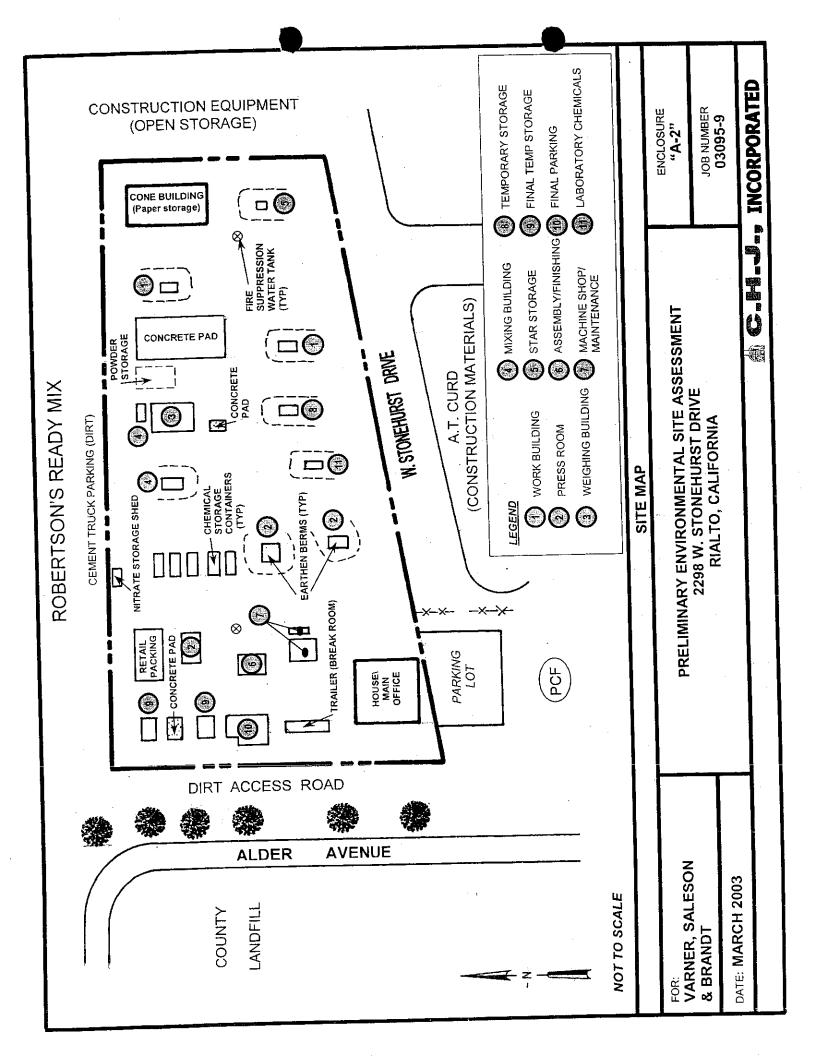
VARNER, SALESON & BRANDT

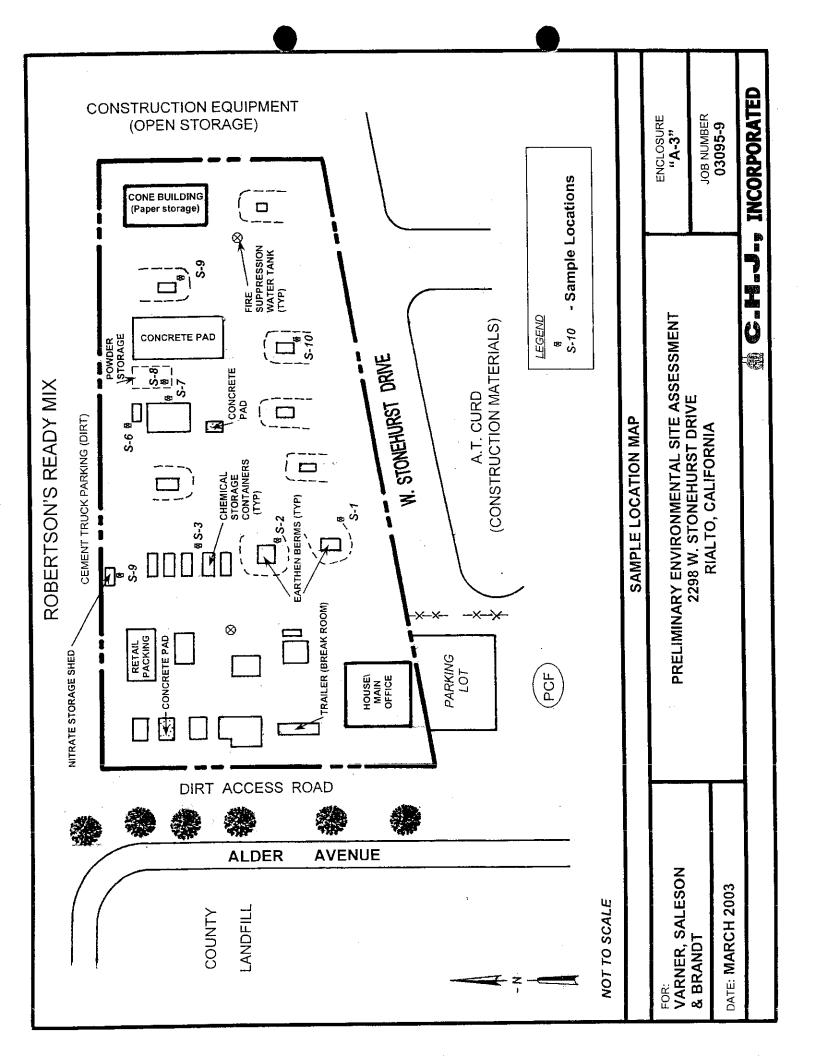
PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT 2298 W. STONEHURST DRIVE RIALTO, CALIFORNIA ENCLOSURE "A-1"

JOB NUMBER 03095-9

DATE: MARCH 2003

€C.H.J., INCORPORATED







ANALYTICAL REPORT

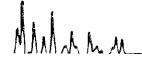
	- 10 C	
Centrum Analytical Laboratories, Inc.	Date Sampled:	02/14/03
1401 Research Park Drive, Suite 100	Date Received:	02/17/03
Riverside, CA 92507-2111	Date Analyzed:	02/19/03
	Work Order No.:	03-02-0884
Attn: Marilu Escher	Method:	EPA 314.0M
RE: Astro Pyrotechnics (A.P.) / 21842	Page 1 of 1	

All concentrations are reported in µg/kg (ppb).

Sample Number	Perchlorate Concentration	Reporting <u>Limit</u>
S-1	500	20
S-2	260	20
S-3	ND	20
S-4	220	20
S-5	ND	20
S-6	55000	40 <u>0</u> 0
S-7	150	20
S-8	100	20
S-9	58	20
S-10	49	20
Method Blank	ND	20

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.





QUALITY ASSURANCE SUMMARY

Method EPA 314.0M

Centrum Analytical Page 1 of 1 Work Order No.: Date Analyzed:

03-02-0884

02/19/03

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: S-1

MS%REC

MSD%REC

Control Limits (%) %RPD <u>L</u>

Control Limits (%)

Analyte
Perchorate

110

99

80 - 120

2

0 - 15

Laboratory Control Sample

<u>Analyte</u>

Conc. Added

Conc. <u>Rec.</u>

%REC

Control Limits (%)

Perchorate

250

270

108

85 - 115





California Regional Water Quality Control Board

Santa Ana Region



Winston H. Hickox
Secretary for
Environmental
Protection

Internet Address: http://www.swrcb.ca.gov/rwqcb8 3737 Main Street, Suite 500, Riverside, California 92501-3348 Phone (909) 782-4130 - FAX (909) 781-6288

Gray Davis
Governor

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our website at www.swrcb.ca.gov/rwqcb8.

November 6, 2002

Mr. James Good Gresham, Savage, Nolan & Tilden, LLP 600 North Arrowhead Avenue Suite 300 Bernardino, CA 92401-1148

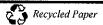
REVISION TO DIRECTIVE AND EXTENSION OF DEADLINE TO SUBMIT WORK PLAN FOR PERCHLORATE INVESTIGATION IN THE VICINITY OF PYRO SPECTACULARS BY SOUZA (3196 NORTH LOCUST AVENUE) AND ASTRO PYROTECHNICS (2298 WEST STONEHURST) FACILITIES, CITY OF RIALTO, SAN BERNARDINO COUNTY, CALIFORNIA

Dear Mr. Good:

In my letter of October 7, 2002, I specified the requirements and deadline for submittal of a work plan by Pyro Spectaculars by Souza (hereinafter Pyro Spectaculars) for an investigation for perchlorate in soil and groundwater in the vicinity of the Pyro Spectaculars facility and former storage bunkers in North Rialto. This investigation was required pursuant to Section 13267 of the California Water Code.

Since October 7, 2002, it has come to our attention that the Astro Pyrotechnics facility (formerly Trojan Fireworks), located at 2298 West Stonehurst in North Rialto, is a subsidiary of Pyro Spectaculars. Information that local businesses provided to us in response to subpoenas (see Enclosures) indicates that Pyro Spectaculars (dba Astro Pyrotechnics, formerly Trojan Fireworks Company) has manufactured and stored fireworks products containing perchlorate salts. The evidence further indicates that Pyro Spectaculars (dba Astro Pyrotechnics, formerly Trojan Fireworks Company) has also stored and burned (on site) waste from the manufacture of these fireworks products. Therefore, it is appropriate that the scope of the investigation required to be conducted by Pyro Spectaculars be expanded to address discharges of perchlorate from the facility at 2298 West Stonehurst (in addition to the required investigation in the vicinity of 3196 North Locust Avenue, and the former storage bunker area, North Rialto).

You have requested a 30-day extension of the November 7, 2002 deadline, on behalf of your client (Pyro Spectaculars). It is my understanding that the 30-day extension will provide additional time for you to retain a qualified consultant and complete the work plan. As indicated to you in a November 4th phone call with my Assistant Executive Officer, the extension is approved, with the stipulation that the work plan must be expanded to include a proposal to investigate the soil and groundwater in the vicinity of the Astro Pyrotechnics facility, 2298 West Stonehurst (a subsidiary of Pyro Spectaculars). This work plan must be submitted by December 9, 2002.



Failure to submit the required information, as described in our letter of October 7, 2002, by the December 9, 2002 deadline will subject Pyro Spectaculars by Souza to administrative civil liability in the amount of up to \$1,000 per day, pursuant to Section 13268(a) and (b) of the California Water Code.

If you have any questions about this letter, please contact Ann Sturdivant, Chief of our Spills, Leaks, Investigations and Cleanups Section, at (909) 782-4904.

Sincerely,

Gerard J. Thibeault Executive Officer

Enclosures:

- 1 Pyro Spectaculars correspondence dated September 1, 1988
- 2 San Bernardino County Hazardous Waste Generator Inspection Reports for 2298 West Stonehurst, North Rialto
- 3 Newspaper article describing explosion of pyrotechnic waste at 2298 West Stonehurst, North Rialto
- 4 Historical records from Trojan Fireworks Company
- 5 Inland Empire Perchlorate Regulatory Task Force Mailing List

cc w/ enclosures:

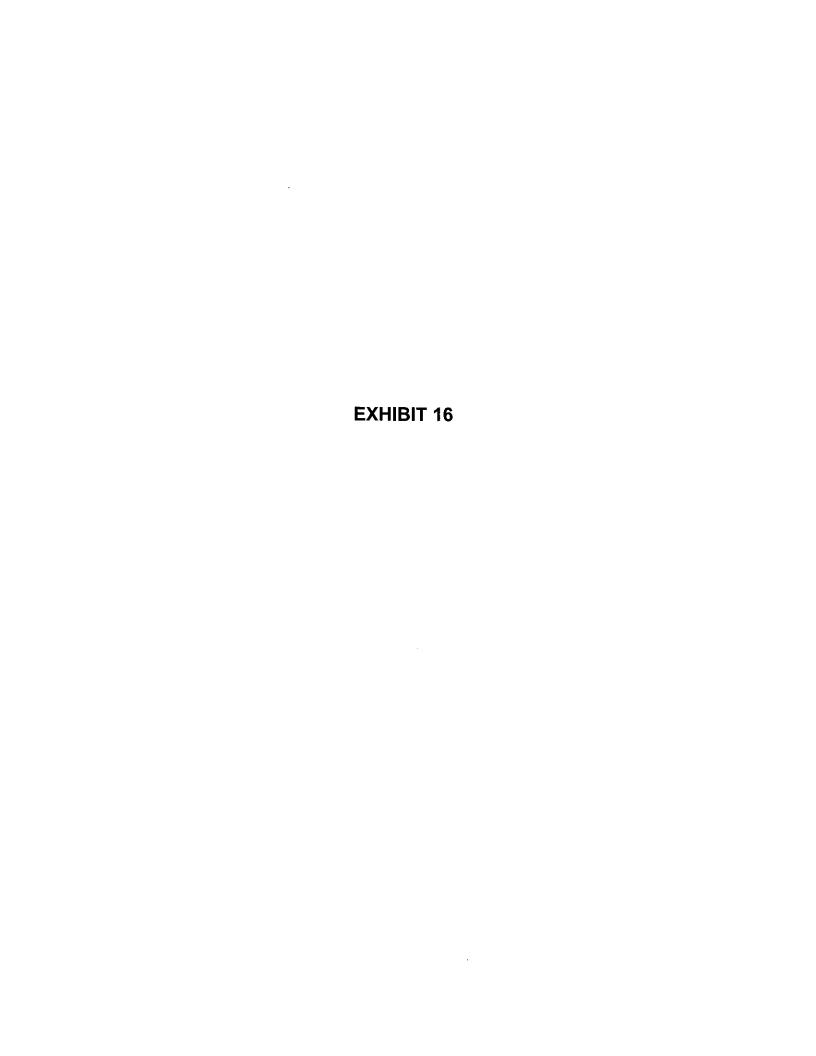
James Souza, Pyro Spectaculars by Souza

cc w/out enclosures:

Regional Board Jorge Leon, Office of Chief Counsel, SWRCB Inland Empire Perchlorate Regulatory Task Force (see mailing list)

AES/Data/SLIC/Rialto perchlorate 01-02/13267/Pytros Spectaculars wkplan extn







December 9, 2002 Project No. 24185

Mr. Gerald J. Thibeault, Executive Officer California Regional Water Quality Control Board Santa Ana Region 3737 Main Street, Suite 500 Riverside, CA 92501-3339

via Certified Mail

Subject:

Workplan for Initial Perchlorate Investigation

Astro Pyrotechnics

2298 West Stonehurst Drive

Rialto, California

Dear Mr. Thibeault:

In response to your Directive, dated November 6, 2002 for an investigation at the Astro Pyrotechnics facility, please find enclosed a Workplan for Initial Perchlorate *Investigation* proposed to be conducted at the above referenced site.

The Directive requested soil and groundwater investigations be conducted at the Astro Pyrotechnics facility located at 2298 West Stonehurst Drive in the City of Rialto. California.

If you have any questions, please contact the undersigned at (909) 798-9522.

Sincerely,

KLEINFELDER, INC.

Rose Ballance, R.G.

Senior Project Manager

Richard L. Orr, R.G.

Senior Geologist

enclosure

Mr. Gary Brown, Astro Pyrotechnics (w/enclosure) cc:

Mr. James Good, Gresham, Savage, Nolan & Tilden, LLP (w/enclosure)

24185.001/RDL2R478

December 9, 2002



WORKPLAN FOR INITIAL PERCHLORATE INVESTIGATION

Astro Pyrotechnics
2298 West Stonehurst Drive
Rialto, California

Prepared for:

Astro Pyrotechnics P. O. Box 2329 Rialto, CA 92337

Prepared by:

Kleinfelder, Inc. 1940 Orange Tree Lane, Suite 100 Redlands, CA. 92374

Kleinfelder Project 24185

December 9, 2002



Work Plan for Initial Perchlorate Investigation **Astro Pyrotechnics** 2298 West Stonehurst Drive Rialto, California

Prepared for:

ASTRO PYROTECHNICS P. O. Box 2329 Rialto, CA 92377

Contact:

Mr. Gary Brown

Telephone:

(909) 874-1644

Kleinfelder Project No.: 24185

Prepared by:

Rose Ballance, R.G.

Senior Project Manager

Richard L. Orr, R.G.

Senior Geologist

Reviewed by:

Joseph L. Aldern, R.G.

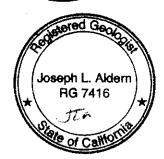
Environmental Services Manager

KLEINFELDER, INC.

1940 Orange Tree Lane, Suite 100 Redlands, CA 92374

December 5, 2002

RICHARD L.





Work Plan for Initial Perchlorate Investigation Astro Pyrotechnics 2298 West Stonehurst Rialto, California Kleinfelder Project No.: 24185

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FIGURES

Figure 1	Site Vicinity Map
Figure 2	Site Location Map
Figure 3	Site Plan – Astro Pyrotechnics

Work Plan for Initial Perchlorate Investigation Astro Pyrotechnics 2298 West Stonehurst Drive Rialto, California

1.0 INTRODUCTION

1.1 General

This Work Plan was prepared for Astro Pyrotechnics in response to a *Directive to Submit a Work Plan and Conduct Perchlorate Investigation* from the California Regional Water Quality Control Board (CRWQCB), dated November 7, 2002. In this directive, the CRWQCB identified the following as their concerns:

- ◆ Astro Pyrotechnics manufactured and stored firework products containing perchlorate salts.
- Astro Pyrotechnics has stored and burned waste on-site.

1.2 Site Description

The Astro Pyrotechnics facility is located in the northern portion of the City of Rialto, California (Figure 1). The Astro Pyrotechnics facility is located at 2298 West Stonehurst Drive on the northeast corner of Stonehurst Drive and the extension of Alder Avenue.

The Astro Pyrotechnics facility occupies approximately five acres on leased land (Figure 2) on the northeast corner of Stonehurst Drive and the extension of Alder Avenue (Figure 3). The site is located in the southwest quarter of the northwest quarter of Section 28, Township 1 North, Range 5 West, SB B&M. The facility manufactures theatrical 1.4G fireworks and articles pyrotechnic for shipment to off-site licensed professional customers. The facility receives raw materials (including chemicals and paper goods) and assembles various types of fireworks inside small work buildings. The site consists of 25 buildings and storage units. The facility office is located on the southwest corner of the site in building No. 25 near the main entrance. The raw chemicals are stored in bulk in units Nos. 6, 12, and 13a through e, and laboratory chemicals are stored in unit No. 11. Various other buildings are used for manufacture and storage of firework products. Four of the work buildings (building Nos. 1, 8, 10, and 15) have concrete liquid collector pads adjacent to the building for collecting wastes generated during the manufacturing process. The accumulated liquids and sludge in these pads are regularly pumped off into plastic DOT-approved drums for off-site shipment and disposal.

1.3 Site Background and Previous Studies

The Astro Pyrotechnics facility is located on leased land and consists of approximately five acres. The site is located within a larger area formerly occupied by the RASP of the U. S. Navy. The Astro Pyrotechnics facility was formerly owned by Trojan Fireworks. In 1988, Pyro Spectaculars bought the assets of Astro Pyrotechnics and continued operations at the lease property on Stonehurst Drive. The site is bounded by the San Bernardino County Mid-Valley Landfill to the west and southwest and the former RASP Storage Bunkers (now Robertson's sand and gravel operation) to the north.

2.0 SITE GEOLOGY/HYDROGEOLOGY

2.1 Site Geology

The subject site is situated at an elevation of approximately 1,580 feet above mean sea level (msl) on a southeastward sloping alluvial surface of the Lytle Creek alluvial fan (Figure 1). The Lytle Creek alluvial fan is developed on the southeastern flank of the San Gabriel Mountains originating from the mouth of Lytle Canyon approximately three miles northwest of the subject site. Geologic units that underlie the site are mapped as young (Holocene) alluvial fan deposits. The alluvial sediment range from fine-grained silts and clays to sands and coarse cobbles and boulders, with the majority of materials derived from the San Gabriel Mountains to the north.

The site lies in the northern portion of the Peninsular Ranges geomorphic province near the boundary with the Transverse Ranges geomorphic province, the boundary of which is represented by the San Jacinto Fault located approximately 1.5-miles to the northeast of the Astro Pyrotechnics facility. The site lies above a large alluvial basin developed on the tectonically down-dropped Perris Block of the Peninsular Ranges.

The area is tectonically active with major fault zones represented by the San Andreas Fault, the San Jacinto Fault, Cucamonga Fault and the Rialto-Colton Fault. The subject sites are located between the buried traces of the San Jacinto and the Rialto-Colton faults, which make up the boundaries of the Rialto-Colton groundwater basin.

2.2 Site Hydrogeology

The Rialto-Colton Groundwater Basin is bounded by the Santa Ana River to the southeast, the San Jacinto Fault to the northeast, the Rialto-Colton Fault on the southwest, and a leaky boundary (termed Barrier J) to the northwest. Basin recharge is considered to occur as leakage through Barrier J and to some extent along the northern portion of the San Jacinto Fault (Woolfenden, USGS, 1998).

Groundwater within the Rialto-Colton Basin occurs in alluvial sediments at depths ranging from 100 feet below ground surface (bgs) to greater than 400 feet bgs. Groundwater elevation data, based on USGS investigations, suggest the groundwater flow direction in the vicinity of the subject site is towards the southeast at gradients of 0.005 to 0.006 feet vertical per foot horizontal (ft./ft.).

3.0 PROPOSED SCOPE OF WORK

3.1 Historical Review

Additional historical review of the subject site will be performed to further evaluate past occupancy and uses. This review will included historical topographic maps, aerial photographs, building permits, property ownership records and other historical documents. The review will focus on information related to past and current site features, areas of waste disposal or other land use features suggestive of disposal or use that may indicate areas of concern related to releases of perchlorate materials and correlation with existing site features.

3.2 Process and Chemistry Review

Kleinfelder will continue to review facility operations, process flow, chemical use and waste streams at the Astro Pyrotechnics facility. These reviews will be used to develop additional understanding of process activities that could result in releases of chemicals to the environment, evaluating potential areas of investigation, physiochemical characteristics of associated chemicals, and potential fate and transport as they relate to potential releases of perchlorate.

3.3 Soil Investigation

Based on the information reviewed to date, interviews and discussions with representatives of Astro Pyrotechnics, and a site reconnaissance, an initial soil evaluation of areas of potential investigation is proposed. This initial investigation will consist of trench excavations to collect soil samples for analysis of perchlorate.

3.3.1 Trench Excavations

Trench excavations using a wheel-mounted backhoe will be dug in areas of investigation (Figure 3). A total of five exploratory trenches are proposed to be excavated in the following locations:

- One trench in front of the oxidizer storage shed (unit No. 13c).
- Four trenches, consisting of one trench by each of four liquid collector pads near buildings Nos. 1, 8, 10, and 15.

The trenches at the Astro Pyrotechnics facility (Figure 3) will be excavated to total depths of 5 feet bgs. Soil samples will be collected at the surface, and at 2 and 5 feet bgs.

The trenches will be backfilled to original grade with the excavated soils and compacted by tamping with the backhoe bucket and by wheel rolling the surface with the backhoe equipment.

3.3.2 Site Clearance

Prior to trenching, a site visit will be conducted to mark trench locations to determine accessibility and identify utility hazards. Underground Service Alert (USA) will be notified to identify potential subsurface public utility hazards. A geophysical survey of the trench locations will be preformed to identify private utilities and underground obstructions.

3.3.4 Sample Collection, Handling, and Analysis

Soil samples from the trenches will be collected from the shallow excavation or from the backhoe bucket using a clean, dry stainless steel trowel and transferred to clean laboratory supplied 8-ounce glass jars or 2-inch by 6-inch brass sleeves. The sample containers will be sealed, labeled, placed on ice and transported to a State-certified laboratory.

Sample handling and Chain-of-Custody procedures will be conducted in accordance with U.S. EPA SW-846 protocol. Samples will be analyzed for perchlorate by U.S. EPA Method 314.0.

3.3.5 <u>Decontamination Procedures</u>

Decontamination of trowels and sampling equipment will take place before each sample is collected. The sampling equipment will be scrubbed in a detergent solution, rinsed with tap water, and final rinsed with distilled or de-ionized water and dried prior to use.

3.3.6 Waste Disposal

Wash water will be placed in Department of Transportation (DOT) approved 55-gallon drums and temporarily stored on-site pending results of laboratory analyses.

Results of the site assessment will be presented in a report for agency submittal.

3.4 Groundwater Investigation

3.4.1 Hydrogeologic Review

A review of published and public information documents will be performed to evaluate data on depth to groundwater, groundwater flow directions, aquifer characteristics, and groundwater quality. Previous data of the perchlorate concentrations and distributions will be compiled and evaluated.

Based on the results of the soil investigation proposed herein and evaluation of data generated by concurrent investigations proposed by other parties, an evaluation of appropriateness of further investigation and/or monitoring and technical recommendations will be made.

3.4.2 Current Well Data

Municipal water supply wells owned by the West San Bernardino County Water District (WSBCWD) and the City of Rialto are present within 1.5-mile of the Astro Pyrotechnics site. These wells are located within and outside areas of perchlorate impacts. Kleinfelder will review available information obtained from these water purveyors to develop hydrological information relative to groundwater conditions in the vicinity of the site.

The County of San Bernardino has installed numerous wells related to various monitoring and investigative requirements associated with the Mid-Valley Landfill and its expansion. Several of these wells are located near the former Storage Bunkers and the Astro Pyrotechnics facility. Kleinfelder will continue to review this data to develop information on groundwater conditions in the vicinity of the Astro Pyrotechnics facility.

3.4.3 Proposed Related Groundwater Investigations

Additional groundwater monitoring wells have been proposed by the County of San Bernardino to further investigate perchlorate impacts in the vicinity of the Mid-Valley Landfill. Astro Pyrotechnics would like to review the results of this data to assist in evaluating the need for and nature of additional investigations.

4.0 SITE SAFETY

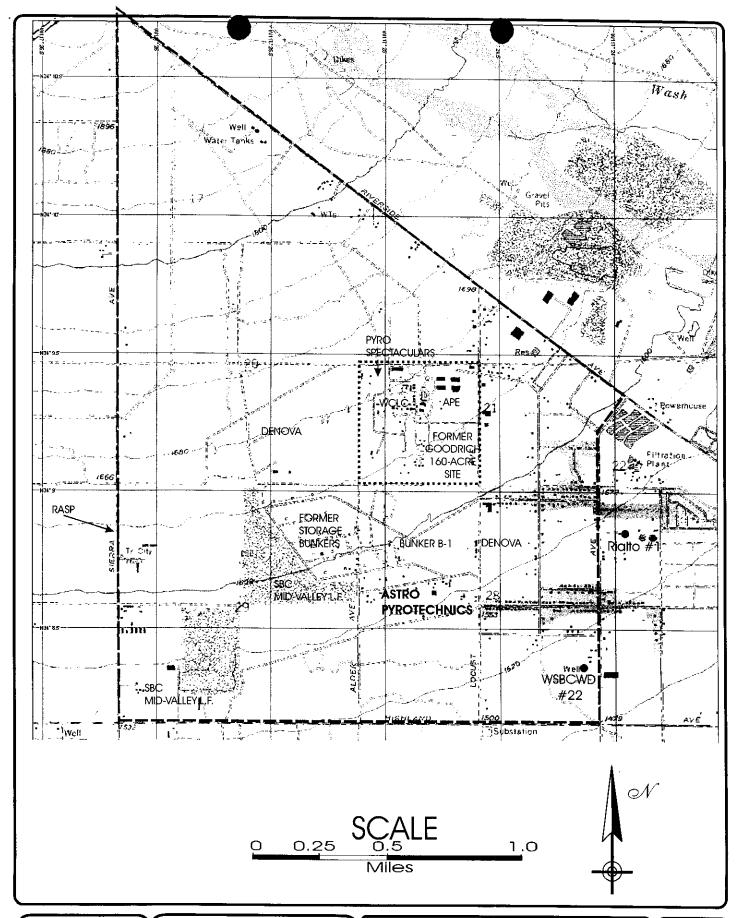
Prior to commencement of field activities, Kleinfelder will prepare a site-specific health and safety plan and a copy will be maintained on-site during drilling and trenching operations. Kleinfelder will coordinate with Astro Pyrotechnics in the development of this plan to accommodate health and safety issues specific to fireworks storage and manufacturing facilities. OSHA hazardous waste operations training will be required of all Kleinfelder personnel and subcontractors engaged in trenching and drilling activities.

5.0 LIMITATIONS

This document was prepared for use only by the Client in accordance with our contract, only for the purposes stated, and within a reasonable time from its issuance. Noncommercial, educational and scientific use of this report by regulatory agencies is registered as a "fair use" and not a violation of copyright. Regulatory agencies may make additional copies of this document for internal use. Copies may also be made available to the public as required by law. The reprint must acknowledge the copyright and indicate that permission to reprint has been received.

Land use, site conditions (both on- and off-site) or other factors may change over time, and additional work may be required. Any party other than the client, or their assignees, who wishes to use this report, shall notify Kleinfelder prior to such intended use to obtain approval. Based on the intended use of the report, Kleinfelder may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements by the client or anyone else will release Kleinfelder from any liability resulting from the use of this report by any unauthorized party.

FIGURES





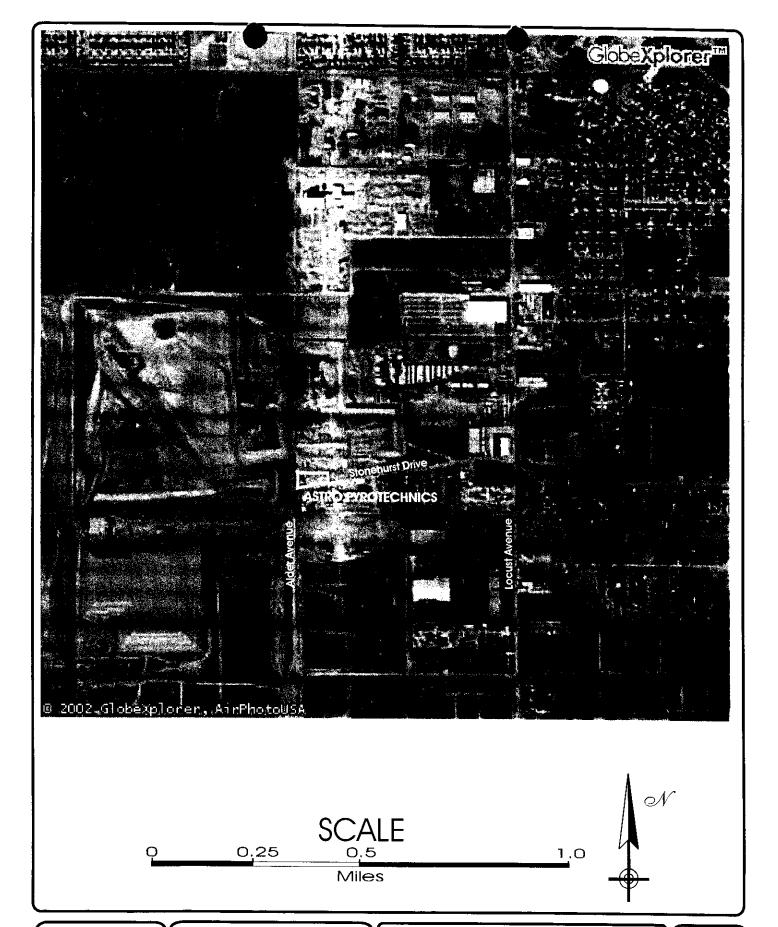
ASTRO PYROTECHNICS Project: 24185.001

File Name: ASTRO-LOC-MAP Date: 12/09/02

SITE LOCATION MAP

Astro Pyrotechnics 2298 West Stonehurst Drive Rialto, CA 92377 FIGURE

1





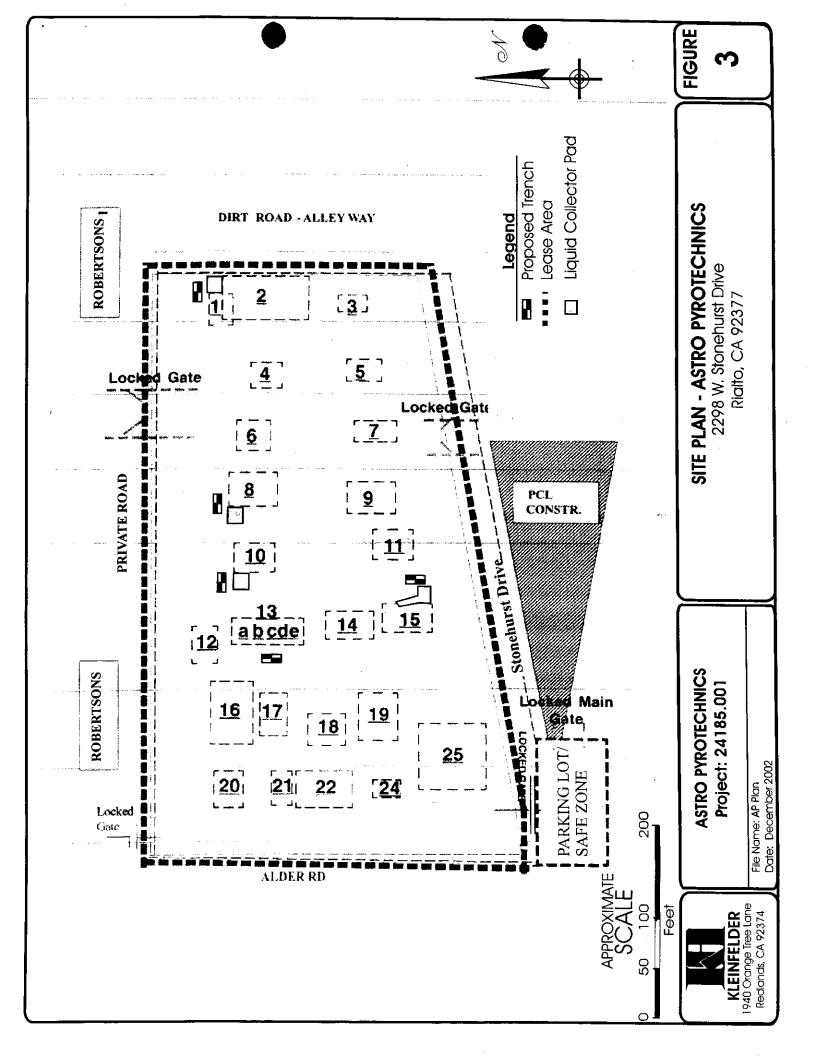
ASTRO PYROTECHNICS Project: 24185.001

File Name: ASTRO-VIN-MAP Date: 12/09/02

SITE VICINITY MAP

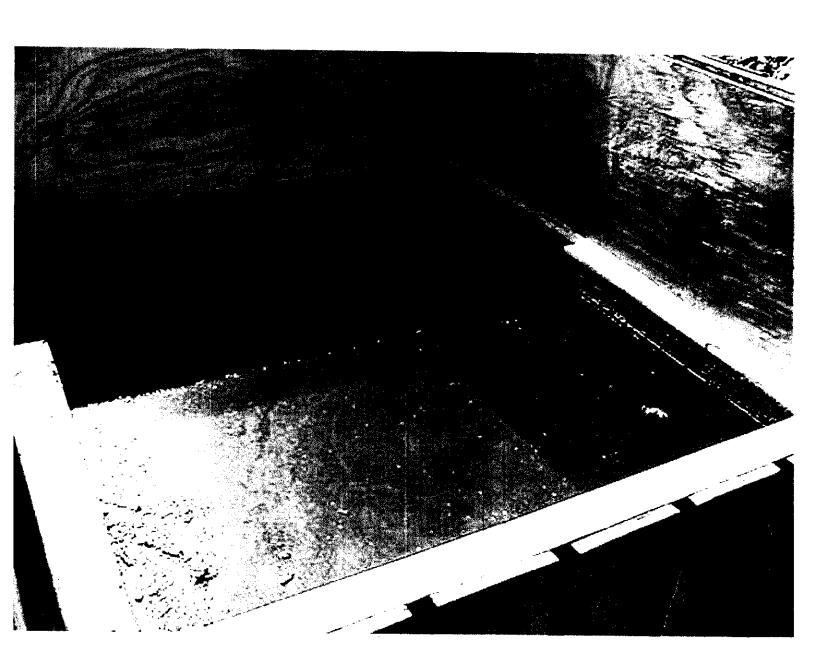
Astro Pyrotechnics 2298 West Stonehurst Drive Rialto, CA 92377 FIGURE

2











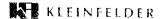


Table 1. Soil Analytical Data Perchlorate

Astro Pyrotechnics

Sample Number	Date Sampled	Depth (feet bgs)	Perchlorate (mg/kg)
AP-T1-1	11/06/03	1	ND<0.040
AP-T1-5	11/06/03	5	ND<0.040
AP-T1-10	11/06/03	10	ND<0.040
AP-T2-1	11/07/03	1	6.2
AP-T2-5	11/07/03	5	9.3
AP-T2-10	11/07/03	10	32
AP-T3-1	11/07/03	1	10
AP-T3-5	11/07/03	5	19
AP-T3-10	11/07/03	10	24
AP-T4-1	11/07/03	1	18
AP-T4-5	11/07/03	. 5	10
AP-T4-10	11/07/03	10	22
AP-T5-1	11/06/03	1	9
AP-T5-5	11/06/03	5	2.2
AP-T5-10	11/06/03	10	1.2

Notes:

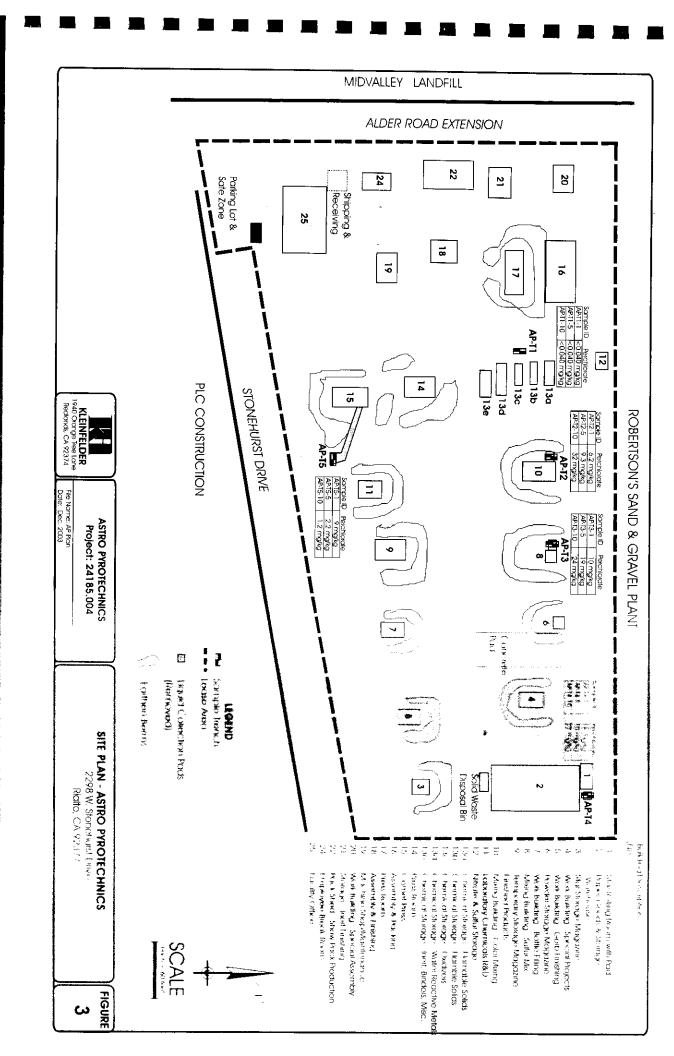
Bold result indicates compound was detected above the laboratory reporting limit.

Samples analyzed for perchlorate by EPA Method 314.0 Modified.

bgs = Below ground surface.

NA = Not analyzed.

mg/kg = milligrams per kilogram.







California Regional Water Quality Control Board

Santa Ana Region

Gray David

Winston H. Hickox Secretary for Environmental Protection Internet Address: http://www.swrcb.ca.gov/rwqcb8 3737 Main Street, Suite 500, Riverside, California 92501-3348 Phone (909) 782-4130 - FAX (909) 781-6288

Gray Davis Governor

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our website at www.swrcb.ca.gov/rwqcb8.

July 18, 2003

Mr. Thomas O. Peters 15709 Birchwood Street La Mirada, California 90638

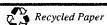
DIRECTIVE TO SUBMIT A WORK PLAN AND CONDUCT A PERCHLORATE INVESTIGATION IN THE VICINITY OF 2298 WEST STONEHURST, CITY OF RIALTO, SAN BERNARDINO COUNTY, CALIFORNIA

Dear Mr. Peters:

Perchlorate has been detected in municipal water supply wells in the Rialto, Colton, and Chino Groundwater Subbasins in Southern California. These water supply wells are located downgradient of the Astro Pyrotechnic facility (formerly Trojan Fireworks Company). According to records from the San Bernardino County Tax Assessor's office, you are and have been the owner of the property located at 2298 West Stonehurst, Rialto, California, since the mid-1970s.

Information provided by local businesses in response to subpoenas issued by this agency indicates that: (1) You were the legal owner of Trojan Fireworks Company in 1987; (2) Trojan Fireworks Company was located at 2298 West Stonehurst; (3) Trojan Fireworks Company generated wastes from the manufacture of fireworks; (4) upon the closure of Trojan Fireworks Company you leased and continue to lease 2298 West Stonehurst to Astro Pyrotechnics; and (5) you are aware that Astro Pyrotechnics is in the pyrotechnics business and uses the property to manufacture, handle, test, burn and store fireworks. Further, the laboratory results from the analyses of soil samples that were collected from several locations on your property as part of a Preliminary Environmental Assessment performed in February and March 2003 indicate that perchlorate is present in concentrations as high as 55,000 parts per billion in the soil at the site.

This letter sets forth a requirement under California Water Code Section 13267 that you conduct an investigation to define the lateral and vertical extent of perchlorate in soil and groundwater in the vicinity of 2298 West Stonehurst Avenue, Rialto, California. As required by that provision, this letter contains an explanation of the need for the investigation, and cites evidence supporting the requirement.



Background

Perchlorate contamination was first detected in groundwater in the Rialto, Colton and Chino Groundwater Subbasins in 1997. At that time, the California Department of Health Services (DHS) Action Level (AL) for perchlorate in drinking water was 18 parts per billion (ppb). Two wells had perchlorate levels exceeding 18 ppb and were shut down. In January 2002, the DHS lowered the AL to 4 ppb. In response to the reduced AL for perchlorate, the local water purveyors in the Rialto and Colton Groundwater Subbasins restricted or eliminated the use of additional production wells with perchlorate concentrations that exceeded 4 ppb. Between 1997 and the present, various suspected perchlorate dischargers, including former and current occupants of your property at 2298 West Stonehurst, have been identified.

Requirement for an Investigation

The Regional Board has directed staff to issue individual letters under California Water Code Section 13267 to suspected perchlorate dischargers in the Rialto and Colton Groundwater Subbasins. Several letters similar to this one have already been issued over the last several months to other suspected dischargers and to the owners of affected properties. The Board also expressed a strong desire that suspected perchlorate dischargers work with the local water purveyors to provide a supply of replacement water during the loss or limited use of their production wells.

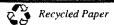
The Need for the Investigation

The Santa Ana Regional Water Quality Control Board is charged with the protection of water quality in this Region. We have been working actively with the water surveyors for several years to identify the extent and address the impact of perchlorate contamination on water resources in the Rialto, Colton and Chino Groundwater Subbasins. The water purveyors whose wells have been contaminated with perchlorate now face a state of emergency, and may not be able to provide an adequate water supply to their customers. It is urgent that the sources of the contamination be identified, and the magnitude of the perchlorate plume defined.

Evidence Supporting the Need for the Investigation

Enclosed are the following documents:

- 1. Well Location Map, showing perchlorate contamination in municipal water supply wells in the vicinity of Rialto, Colton and Fontana, California.
- Property Ownership Records for 2298 West Stonehurst: Parcel 1133-071-005, Parcel 1133-071-006, and Parcel 1133-071-007 (obtained from San Bernardino Tax Assessor's Internet Site).
- 3. Hazardous Waste Generator and Hazardous Waste Handler Permits and County of San Bernardino Hazardous Waste Generator Inspection Reports (listing Ammonium Perchlorate) issued to Astro Pyrotechnics. Hazardous



Waste Manifests (listing Potassium Perchlorate), an Application and Permit to Burn issued by Fire Protection Agency and South Coast Air Quality Management District to Astro Pyrotechnics, and a Plot Plan identifying the facility.

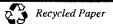
- 4. Hazardous Waste Generator Permits for Trojan Fireworks Company, one of which identifies the legal owner as Thomas O. Peters. County of San Bernardino Hazardous Waste Generator Survey identifying Trojan Fireworks Company. Application for Conditional Development from Trojan Fireworks Company to the City of Rialto for the purpose of manufacture of commercial fireworks. Newspaper article about a fireworks explosion at the Trojan Fireworks Company facility.
- 5. Excerpts, including positive results for perchlorate testing of soil, from "Preliminary Environmental Site Assessment and Limited Soil Sampling -- 2298 West Stonehurst Drive, Rialto, California" (2003).

The evidence indicates that Astro Pyrotechnics manufactures, handles, tests, burns, and stores fireworks containing perchlorate salts at the property located at 2298 West Stonehurst, Rialto, California, as did its predecessor Trojan Fireworks Company. Disposal of perchlorate waste to concrete "pads" has been a common practice at the Astro Pyrotechnics site since 1997 or earlier. In addition, City of Rialto records indicate that on-site disposal systems (septic tanks) have been used at the site since it was first occupied for industrial use. Disposal of waste, including perchlorate salts, into septic systems is suspected to have occurred during occupancy of the Stonehurst Avenue property by Astro Pyrotechnics, Trojan Fireworks and other parties since the mid-1970s. Soil analytical results indicate perchlorate is present in the soil at Astro Pyrotechnics. Groundwater analytical results indicate that perchlorate concentrations exceed the AL in municipal water supply wells that are located downgradient of the Astro Pyrotechnics facility.

Based on the evidence, Astro Pyrotechnics and its predecessors are suspected of having discharged perchlorate on the property. As the owner of the real property at 2298 Stonehurst, and of the now defunct Trojan Fireworks Company, you bear legal liability under California law for the discharges that have adversely affected water quality. This evidence supports the requirement for an investigation as defined in Section 13267(b)(1) of the California Water Code.

Deadlines

 A work plan for a soil and groundwater investigation for perchlorate in the vicinity of the property at 2298 West Stonehurst, Rialto must be submitted to Board staff no later than August 29, 2003. The proposed tasks and scope of work shall be coordinated with the investigation activities that are already in progress by the



current tenants of 2298 West Stonehurst, Astro Pyrotechnics. The work plan must include a detailed time schedule for the tasks to be conducted. The work plan and time schedule will be subject to my approval.

- 2. The investigation must commence within 30 days of my approval of the work plan.
- 3. All analytical results, groundwater measurements, and field information are to be submitted by fax to Board staff within 24 hours of being generated, throughout all stages of work, and during all phases of the investigation. The office fax number to be used for your data transmittals is (909) 781-6288.
- 4. The final report for the soil and groundwater investigation, including (at a minimum) the borehole logs, well construction details, groundwater elevation data, and soil and groundwater analytical results, must be submitted to Board staff within 30 days of completing the field work.

Failure to submit the required information by the specified deadline may subject you to administrative civil liability in the amount of up to \$1,000 per day, pursuant to Section 13268(a) and (b) of the California Water Code.

Finally, please be aware that the Board has directed staff to explore alternative ways of solving the water supply problem in the Rialto, Colton and Chino Groundwater Subbasins. In addition, consistent with the Board's direction, we have issued and will continue to issue similar directives to a number of other suspected dischargers who have operated in the North Rialto area. Thus, there may be opportunities to cooperate with other entities to implement joint investigations or to propose solutions that would address the water supply problem. In fact, we believe it would be both scientifically effective and economically efficient for the suspected dischargers subject to these directives to jointly pursue the investigation and to explore water supply replacement options. Further, consistent with the Board's direction, we recommend that the joint efforts of the suspected dischargers consider both the characterization of the plume and initiation of water supply replacement or treatment strategies. Board staff has experience managing similar joint investigations and cooperative solutions and we are available to discuss these further with you. If you are interested in discussing alternative options for complying with this directive, please contact us to arrange a meeting or teleconference.

Recovery of Regional Board Expenses

California Water Code Section 13365 addresses the billing process for the Regional Board to recover reasonable expenses for overseeing investigation of illegal discharges, contaminated properties, and other unregulated releases that may adversely affect the State's waters. It is the Regional Board's intent to recover such costs for regulatory oversight work conducted in accordance with this order. A description of the Board's



procedure for cost recovery for regulatory oversight of investigations and cleanups will be sent to you under separate cover.

If you have any questions about this letter, or if you would like to arrange a meeting or teleconference, please contact Ann Sturdivant, Chief of our Spills, Leaks, Investigations and Cleanups Section, at (909) 782-4904.

Sincerely,

Gerard J. Thibeault Executive Officer

KtV. Btll

Enclosures:

- 1. Well Location Map, showing perchlorate contamination in municipal water supply wells in the vicinity of Rialto, Colton and Fontana, California.
- 2. Property Ownership Records for 2298 West Stonehurst: Parcel 1133-071-005, Parcel 1133-071-006, and Parcel 1133-071-007 (obtained from San Bernardino Tax Assessor's Internet Site).
- 3. Hazardous Waste Generator and Hazardous Waste Handler Permits and County of San Bernardino Hazardous Waste Generator Inspection Reports (listing Ammonium Perchlorate) issued to Astro-Pyrotechnics. Hazardous Waste Manifests (listing Potassium Perchlorate), an Application and Permit to Burn issued by Fire Protection Agency and South Coast Air Quality Management District to Astro-Pyrotechnic, and a Plot Plan identifying the facility.
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- 5. Excerpts from "Preliminary Environmental Site Assessment and Limited soil Sampling 2298 West Stonehurst Drive, Rialto, California" (2003)
- 6. Mailing List

cc w/out enclosures:

Regional Board members
Jorge Leon, Office of Chief Counsel, SWRCB
Norman S. Berliner, Esq.
James E. Good, Gresham, Savage, Nolan & Tilden, LLP
Gary Brown, Pyro Spectaculars/Astro Pyrotechnics
Inland Empire Perchlorate Regulatory Task Force members (see mailing list)

AES/Data/SLIC/2001-03 Rialto perchlorate/13267/Thomas O. Peters

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Mike Whitehead Fontana Water Company P.O. Box 987 Fontana, CA 92335

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Robert Owen City of Rialto P. O. Box 920 Rialto, CA 92376

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Matt Mitguard U.S. EPA, Region IX (Region 9) 75 Hawthorne Street San Francisco, CA 94105-3901

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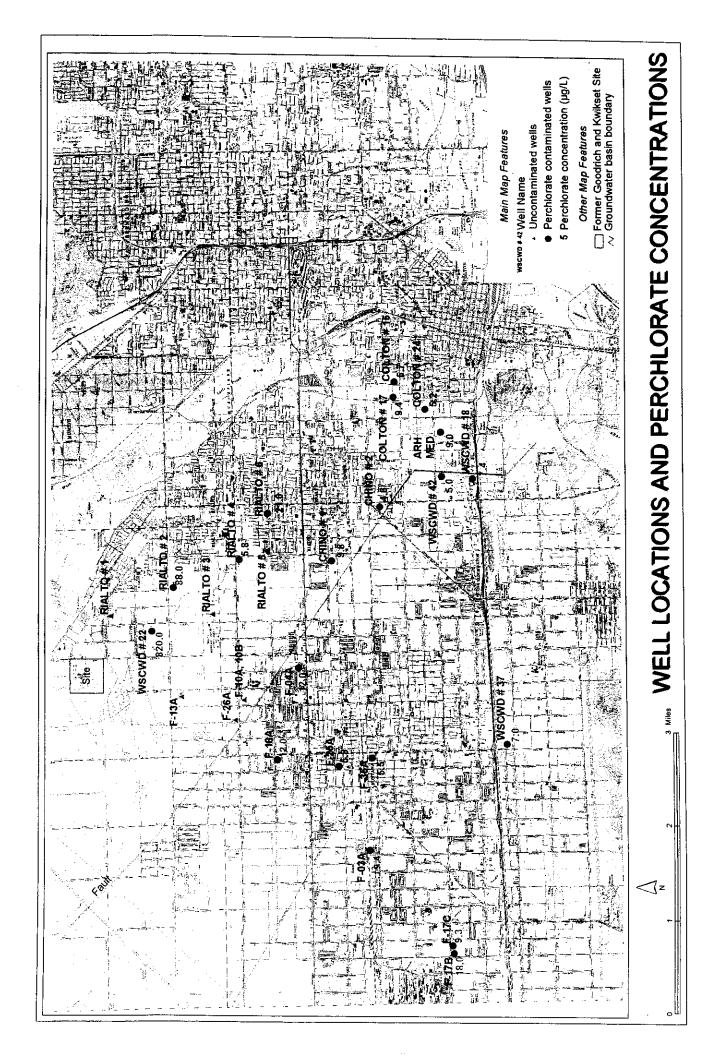
Michael Wochnick California Integrated Waste Management P.O. Box 4025 Sacramento, CA 95812-4025

Gary Tavetian California Office of the Attorney General 300 S. Spring St., Ste. 500 N. Los Angeles, CA 90013-1204

Eric Fraser
City of Colton
Public Utilities Department
650 N. La Cadena Drive
Colton, CA 92324-2897

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ENCLOSURE 1



ENCLOSURE 2

What do you know about the property? (Please enter one type of information below and press the *Search* button).

The	Parcel	Number	13 characters
mh a	D		DR '
Tue	Propert	ty Addres	iS
	Street	Number	2298 digits only
	Street	Name	West Stonehurst full street name
	Street	2	Optional; e.g. Ave, St, Ln
			·R
Prop	erty ID	Number	
(for	Boat,	Aircraft	
or M	Mobile H	lome)	
		1.97	Search the Database Clear All Fields
		<u></u>	

New Home Owners - To Estimate your Tax Bills Click Here, or for general information Click Here.

Block/Unit

Property Information For Parcel 1133-071-05-0000

Type of Property: UNKNOWN

Tract

Number

Legal Description

Lot Number

Address Information

Situs Address	Protected per CA. Govt. Code Sect. 6254.21
Billing Address	Protected per CA. Govt. Code Sect. 6254.21
As Of	1996/09/27

00000 000 PTN S 660 FT NW 1/4 SEC 28 TP 1N R 5W COM AT PT IN S LI SD NW 1/4 DIST N 89 DEG 51 MIN W 1319.36 FT THEREON FROM CEN SD SEC 28 TH ALG A LI BEARING N 0 DEG 32 MIN W TO A PT THAT BEARS S 0 DEG 32 MIN E 150.32 FT FROM N LI SD S 660 FT TH S 79 DEG 37 MIN W TO A PT IN W LI SD SEC 28 FOR TRUE PT BEG TH N 0 DEG 37 MIN 45 SECONDS W 390 FT TO NW COR S 660 FT NW 1/4 SD SEC TH S 89 DEG 51 MIN E 150 FT ALG SD N LI TH S 0 DEG 37 MIN 45 SECONDS E TO PT IN LI THAT BEARS N 79 DEG 37 MIN E FROM TRUE PT BEG TH S 79 DEG 37 MIN W TO TRUE PT BEG 1.21 AC M/L

Present Owner Information

Name	% Own	Relationship	Document No.	Recording Date	Acquire Date	Roll Year
PETERS, THOMAS O TR		TRUST REVOCABLE	9627914000000	1996/08/01	1975/01/01	1975

Property Information For Parcel 1133-071-06-0000

Type of Property: UNKNOWN

Legal Description

Address Information

Situs Address	1
Billing Address	Protected per CA. Govt. Code Sect. 6254,21
As Of	1996/09/27

Tract Number	Lot Number	Block/Unit
	00000	000
PTN S 660 FT	'NW 1/4 SEC	28 TP 1N R 5W

COM AT NW COR S 660 FT SD SEC TH S 89 DEG 51 MIN E 150 FT ALG N LI SD S 660 FT TO TRUE PT BEG TH S 0 DEG 32 MIN E 360 FT TH N 79 DEG 37 MIN E TO PT THAT LIES PARALLEL 300 FT E OF W LI SD SEC 28 TH N 0 DEG 32 MIN W 300 FT TO N LI SD S 660 FT SD SEC TH S 89 DEG 51 MIN W 150 FT TO TRUE PT BEG 1.20 AC M/L

Present Owner Information

Name	% Own	Relationship	Document No.	Recording Date		Roll Year
PETERS, THOMAS O TR		TRUST REVOCABLE	9627914100000	1996/08/01	1974/09/16	1997

Property Information For Parcel 1133-071-07-0000

Type of Property: UNKNOWN

Tract

Legal Description

Address Information

Situs Address	Protected per CA. Govt. Code Sect. 6254.21
	Protected per CA. Govt. Code Sect. 6254.21
As Of	1996/09/27

00000 000 PTN S 660 FT NW 1/4 SEC 28 TP 1N R 5W COM AT NW COR SD S 660 FT TH E ALG N LI SD S 660 FT DIST OF 300 FT TO TRUE PT BEG TH CONT E TO NW
COM AT NW COR SD S 660 FT TH E ALG N LI SD S 660 FT DIST OF 300 FT
COR OF PROPERTY CONVEYED TO JAMES G JEFFERYS AND WIFE BY DEED RECD DEC 31,1954 BK 3537 PG 326 OFFICIAL RECORDS TH S ALG W LI SD PROPERTY TO SW COR THEREOF TH S 79 DEG 37 MIN W TO PT WHICH IS N 79 DEG 37 MIN E 300 FT FROM W LI SD SEC TH N 330 FT M/L TO TRUE PT BEG 2.62 AC M/L

Present Owner Information

Name	% Own	Relationship	Document No.	Recording Date	Acquire Date	Roll Year
PETERS, THOMAS O TR		TRUST REVOCABLE	9627913900000	1996/08/01	1975/01/01	1975

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	•		

ENCLOSURE 3



ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

COUNTY OF SAN BERNARDING, CALIFORNIA

THIS PERMIT EXPIRES: 05/31/90

ASTRO PYROTECHNICS 2298 W STONEHURST RIALTO, CA 92376

- 86008402 SERMIT - 8710010013

NON-TRANSFERABLE

This permit may be suspended or revoked by the health officer for cause. This permit is granted on condition that the person named in the permit will comply with the laws, ordinances and regulations that are now or may hereafter be in force by the United States Government, the State of California and the County of San Bernardino pertaining to the above mentioned business. Penalty less are assessed on permits renewed 30 days after expiration date indicated above, or for failure at cobtain new permit in case of transfer of ownership.

TYRE OF PERMIT - HAZARDOUS WASTE GENERATOR

FEE PAID

ABR EMPL

1325-00

OBA: ASTRO PYROTECHNICS 2298 M STONEHUAST

RIALTO. CA 92376

D4-1004-631

PERMIT DOES NOT IMPLY APPROVAL

CONSPICUOUS PLACE

Director ENVIRONMENTAL HEALTH SERVICES

POST IN A

0

ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

COUNTY OF SAN BERNARDING, CALIFORNIA

THIS PERMIT EXPIRES:

09/30/90

ASTRO PYROTECHNICS 2298 M STONEHURST RIALTO CA 92376 EST — 86008402 PE

PERMIT - 8701260283

PERMIT

NON-TRANSFERABLE

This permit may be suspended or revoked by the health officer for cause. This permit is granted on condition that the person named in the permit will comply with the laws, ordinances and regulations that are now or may hereafter be in force by the United States Government, the State of California and the County of Santo obtain new permit in case of transfer of ownership.

TYPE OF PERMIT - HAZARDOUS MATERIAL HANDLER

FEE PAID

190.00

DBA: ASTRO PYROTECHNICS 2298 W STONEHURST RIALTO, CA 92376

04-1804-831

REV. 3/85

PERMIT DOES NOT IMPLY APPROVAL

POST IN A CONSPICUOUS PLACE

ENVIRONMENTAL HEALTH SERVICES

SBCHMD

FIRE PROTECTION AGENCY AND SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

APPLICATION AND PERMIT TO BURN

ire Agency	Rialto F	ire Depart	ment	•			\		
Jame (Ac-2)	Astro-	-Pyrotechnics			st. Na	714-022-0	1138		
		Stonehurst /	Aye						
		196 N Locust							
		Townshi	ip	R>	nge	Cros	s Street		
Management Name and Ty	District, Rule ype of Mater	Hazardous	Pyrotechni	ic Waste	<u>Materia</u>	als		oorn Coast /	-AR CUBIRY
		L			Acreeg	ю	<u> </u>		
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COUNTY OF SAN BERNARDING

RKHARD.W. SEWELL

Fire Chief County Fire Ward

COUNTY FIRE DEPARTMENT

HAZARDOUS MATERIALS DIVISION 385 Horth Arrowbond Avenue, Second Floor . Sen Bernardine, CA 32415-8153

June 4, 1997

Astro Pyrotechnics 2298 W. Stonehurst **Rialto, CA 92378**

Facility manufactures theatrical and small stadium fireworks.

Facility was inspected on March 17, 1997 for compliance with hazardous material and waste laws and regulations. John Jeska of this Department was also present.

Facility has current permits as a hazardous material handler and a hazardous waste generator from this Department.

The Business/Contingency Plan was last updated in January 1994.

The facility has small buildings that hold raw materials and for manufacturing of the fireworks. Magazines on site are used to store finished product, waste chemicals, and unusable or off specification fireworks.

Assembly of the fireworks is conducted in small pre-fab buildings. The chemicals are formed or pressed into shape and containerized. The "oxidizer" building has a hydraulic oil leak coming from its hydraulic press. The oil has leaked through the floor and has pooled on the ground next to the building.

Two buildings have small concrete bernned areas next to them that are used to collect the chemical sweepings (waste) that have fallen on the floor from the manufacturing process. The floors inside the buildings are washed out with water. The chemicals on the floor are washed out into these shallow bermed areas and kept underwater. The water is periodically drained and the "studge" is collected and stored in the magazines to await disposal. About 50 pounds are collected before they are burned on site.

Astro Pyrotechnics Page 2

Off specification fireworks are also kept in the magazines. Leo Autote of Astro Pyrotechnics and Dean Collister and Gary Brown of Pyro Spectacular, stated in person or in phone conversations that these wastes are hauled off site under a bill of lading, with approval from the State Fire Marshall's office. These wastes are disposed of by burning, most recently in Merced County. Copies of the bills of lading were requested from Mr. Collister on March 28, 1997, but none have been received by this Department.

Greg Smith and Marge Yarbrough of the State Fire Marshall's office stated that Pyro Spectacular (parent company of Astro Pyrotechnics) was under a one-time contract tast year to remove confiscated fireworks from Southern California area fire departments and Sheriff's offices and was allowed to haul some of their own wastes under that contract. No current contract exists with the State Fire Marshall's office for removal of any waste from either company.

The South Coast Air Quality Management District has given the facility a yearly clearance which allows the Rialto Fire Department to approve burn permits on Astro Pyrotechnics property with certain restrictions.

Off specification fireworks and manufacturer chemical floor sweepings meet the definition of hazardous waste under 22 CCR 68261.2(c) and 68262.21. They are wastes because they are disposed of by burning and meet RCRA hazardous waste criteria because of their ignitibility characteristic.

Requirements to be completed within 30 days:

- 1. All hazardous wastes must be properly contained and labeled. The label must have the words "Hazardous Waste" on it and the following information must be completed: Name and address of facility, accumulation start date, contents and composition, physical state and hazardous properties. A sample label is enclosed.
- Storage areas for hazardous waste must be inspected weekly and a log kept of the inspections. A sample form is enclosed.
- 3. All hazardous waste must be removed by a licensed hazardous waste hauler, and transported to a permitted facility. The hazardous waste must be removed from the facility within 180 days of the accumulation start date (90 days if more than 1000 kg/month is generated).

Astro Pyrotechnics Page 3

- 4. Hazardous wastes must be hauled with a hazardous waste manifest when removed from the facility. Hazardous waste manifests must be kept on afte and available for review for a minimum of three (3) years.
- An EPA ID number is required to generate and have hazardous waste hauted off site. This number can be obtained by calling (415) 495-8895.
- 6. Properly contain all leaks and operate machinery and equipment to prevent leaks or spills. Properly clean up and dispose of, as hazardous waste, oil and contaminated soil from around production building. Submit the manifest to this Department.
- Update and submit the Business/Contingency Plan. Continue to submit updates at least annually.
- 8. Burning of off specification fireworks and chemical floor sweepings is considered treatment and/or disposal of a hazardous waste. Immediately cease treating or disposing of these hazardous wastes by burning without authorization or a permit from the State Department of Toxic Substances Control (DTSC). Permits from other jurisdictions, such as Rielto Fire Department, South Coast Air Quality Management District, or the State Fire Marshall's office, do not give a variance to any laws or regulations in handling or disposing of hazardous wasta. Contact DTSC at (310) 590-4868 for information on permits required for treating or disposing of hazardous wasta.
- 9. Releasing the water covering the chemical floor sweepings to the ground is an idegal discharge of a hazardous wasts. The water must be analyzed by a State Certified Laboratory to verify that it does not meet hazardous waste criteria, including toxicity and ignitability. A list of State certified analytical laboratories is enclosed. Submit a copy of the completed analysis to this Department. Discharge of wastewater to the surface of the ground is prohibited unless written approval has been granted by the Rialto Water/Wastewater Department, and/or Santa Ana Regional Water Quality Control Board.

Astro Pyrotechnics Page 4

The following documents must be submitted to this Department within 30 days:

EPA ID number
Business/Contingency Plan update
Manifest for contaminated soil removal
Analysis of water covering the chemical floor sweepings

When the above requirements have been completed, submit the completed Certificate of Compliance with all required documents to this Department.

If you have any questions, call (909) 387-3080.

GREG BEACH, REH.S.

Hazardous Materials Field Services

GB:Vr

Enclosures.



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	DEPARTMENT OF ENVIRONMENTAL HEALTH SERVICES
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_	Additional Comments:

HAZARDOUS MATERIALS FIELD SERVICES - 385 North Arrowheed Avenue/Sen Sementine, CA 92415-0180 ± (714) 387-3080

- Received By.



STATE OF ARKANSAS Department of Pollutior I and Ecology P. O. Box 8913 Little Rock, Arkenses 72219-8913 Telephone 501-562-7444

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GENERATOR INITIAL COPY



STATE OF ARKANSAS
Department of Pollution | I and Ecology
P. O. Box 8913 Little Rock, American 72219-8913
Telephone 501-562-7444



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	16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment a classified, packed, marked, and labeled, and are in all respects in proper condition for government regulations and Arkansas state regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volu economically practicable and that I have selected the practicable method of treatment, stor tuture threat to human health and the environment; OR, if I am a small quantity generator, I the best waste management method that is available to me and that I can after.	transport by high irnn and toxicity of race, or disposal o	way ac waste g untentiv	cording to applications to the display available to me wi	ible inte legres () hich mini	rnelional and national take determined to be mixed the present and			
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GENERATOR INITIAL COPY

ENCLOSURE 4

The state of the S

ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

COUNTY OF SAN BERNARDINO, CALIFORNIA

THIS PERMIT EXPIRES: 05/31/89

TROJAN FIREWORKS CO. 2298 W STONEHURST RIALTO, CA 92376

EST - 86008402 PERMIT - 8710010013

PERMIT

NON-TRANSFERABLE

This permit may be suspended or revoked by the health officer for cause. This permit is granted on condition that the person named in the permit will comply with the laws, ordinances and regulations that are now or may hereafter be in force by the United States Government, the State of California and the County of San Bernardino pertaining to the above mentioned business. Penalty fees are assessed on permits renewed 30 days after expiration date indicated above, or for failure to obtain new permit in case of transfer of ownership.

TYPE OF PERMIT - HAZARDOUS WASTE GENERATOR

FEE PAID

\$250.00

TROJAN FIREHORKS CO. 13500 EXCELSION OR

NBR EMPL

DBA TROJAN FIREWORKS CO. NORWALK. CA 90250

POST IN A

CONSPICUOUS PLACE

ENVIRONMENTAL HEALTH SERVICES

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PERMIT DOES NOT IMPLY APPROVAL

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TROJAN FERENDRES CO. 2... 98 W STONEHURST

RI LTO, CA 92376 ES - 86008402 PERMIT - 8710010013

TROJAN FIREWORKS CO.

13500 EXCELSION DR NORWALK. CA 90250

COUNTY OF SAN BERNARDING, CALIFORNIA

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TYPE OF PERMIT - HAZARDOUS WASTE GENERATOR

TROJAN FIREWORKS CO.

FEE PAID

\$125-00

THIS PERMIT EXPIRES: 05/31/88

NBR EMPL

POST IN A

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CONSPICUOUS PLACE

HAZARDOUS WASTE ENERATOR PERMIT APPLICATION THEWAL

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COUNTY OF SAN BERNARDINO

EIN IRONMENTAL HEALTH SERVICES

1 329 East "D" Street + Ontario, CA 91764 + (714) 598-1137
1 11606 Civic Drive + Vistarrille, CA 92362 + (918) 343-661

PLEASE NEFLY TO ADDRESS CHECKED



RICHARD L. ROBERTS, R.S., M.P.H.

August 7, 1987

HATARDOUS WASTE GENERATOR MORTH RIALTO SURVEY

Busi	ness Name: Troisn Pireworks Co. Contact Person: Stuart Cariton
3115	multers 2296 W. Stonchurst, Righto, CA, 92376 Phone: 822-0100
	ing Address: same
1)	List all Hazardous Materials on site include any explosives*
٠.	Explosives (mainly Class C Common fireworks, Class B Special
	fireworks, and wastes from the manufacture of these.)
2)	List all Bazardous Wastes on site include off speck or unusable product*
	As above, production rastes such as floor-sweeping; off-spec product;
	returns from displays and July h sales; and depaged or faulty import
	naterial which can not be returned.

)	How and where are the hazardous materials and wastes stored? [Please draw a map of the facility indicating structures and [Please draw a stored in them. Also indicate how stored: boxes, materials/wastes stored in them. Also indicate how stored: boxes, drums, etc Please indicate any bunkers or pits located on site). See attached. Yes X No.
)	Does your facility manufacture interestant
٠.	Does your facility store fireworks in bulk? Yes No_ See attached
)	Has your facility had problems disposing of off-speck or unusable Yes X No
)	fireworks? If yes, please describe: LPA prohibits burging: SOAQMD prohibits
1	burning: DOT has no classification for hauling. To date we have
	been allowed only to store it.
7)	Have you had any past incidents involving your materials/wastes? Yes X No
	If yes, please describe below (list dates and any injuries)
	Explosion of live vaste storage building on July 28, 1987, in
	which there was one fatality.
8)	Have you developed a "business plan" for emergencies and submitted it to our Department or the Fire Department? (Regardless of the answer, if you have once, please attach it) Yes No X See Attached
? }	List past owners of property, if known: American Explosives Company during some period prior to 1973 then
	Hr. Poters of the Trojan Fireworks Co. accuired it.
Ple	ese return this for to: DEBS 385 NORTH ARROWHEAD

*Attach am additional sheet if more room is needed

+RETURN TO US NO LATER THAN AUGUST 21, 1987+

- 5) Ro finished firevorks are, or have been, stored at the referenced site. "Safe and Sane" Class C Common Firevorks are transported to the company varehouse in Santa Fe Springs upon completion. Class B Special Firevorks manufactured at the site or pruchased from outside suppliers are stored in Bunkers B-1, B-2 and E-1, now leased from private owners.
- 8) We have not filed a formal Business Plan, but we have worked closely with the Rialto Fire Department in connection with structures and contents, and the probable violence, if any, of their burning in case of fires.

S B C H M D

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SARWOOB CICI

TROJAN FIREWORKS CO. . 13500 EXCELSION DRIVE . NORWALK, CALIFORNIA 30650

Actions and let P.O. See 441 - cubic address: TROJPINE -plans (213) 921-1464 - (714) 321-6767

January 9, 1973



City of Rialto
Planning Commission
Mr. Richard E. Downing, Director
150 South Palm Avenue
Rialto, Callfornia 92376

Re: APPLICATION FOR CONDITIONAL DEVELOPMENT, 2-1/2 Acres N/E Corner Stonehurst and Alder Streets, Rialto, California

Gentlemen:

e respectfully submit herewith our application for conditional development of the stated property, now located in the City of Riaito.

It is our intention to re-activate this plant and manufacture only California "safe and same" commercial fireworks as approved by the State Fire Marshal for retail sale each fourth of July season. Although this facility was formerly licensed and used by American Explosives Company (AMEX) for production of military pyrotechnics, we do not intend to engage in the production of Class A explosives, but limit it to Class C only.

The plot plan submitted herewith indicates the proposed usage of existing structures. Storage, both existing and proposed, will most likely consist of only such raw materials as paper tubes, paper cones, corrugated shipping containers, adhesives, labels, etc. Chemical storage is scheduled for our facilities immediately to the north in the former government bunkers where we operate our display fireworks division, known as Astro Pyrotecnics. As goods are finished in this facility they will be dispatched to our Normalk warehouses via our own vehicular equipment, for finel assembly and packaging.

Any doubts as to the ability of our company to set-up, maintain and operate such a facility can readily be answered. The petitioner, 0. D. Peters, president, has over 27 years experience in this field, our vice-president, Mr. 8. W. Wells is probably one of the outstanding pyrotechnicians in the world

Continued

City of Rialto Planning Commission Page -2-January 9, 1973

(see resume attached), and the plant superintendent, Mr. Gerald Gerth is likewise well-versed in the field, being a graduate chemical engineer from California Institute of Technology.

We look forward to favorable action on our application, and pledge our efforts to making this a production facility that will please the administrators and citizens of Rialto. If further facts or information is needed, please call on us.

Yours very truly,

TROJAN FIREWORKS CO.

O. D. Peters, President

ODP; dv

Enc.

SAN BERGARDINO "SUN" March 31, 1988

Wastes may have caused Rialto blast

By PAMELA FITZSIMMONS Sun Staff Writer

RIALTO — A fatal explosion July 28 at the Trojan and Astro fireworks plant might have been caused by an accumulation of live wastes that city and fireworks officials knew of but said they could do nothing about.

The officials blame the South Coast Air Quality Management District for not allowing the fireworks company to legally burn off the five wastes — debris that can

A district spokesman said-Wednesday the fireworks compamy and the Riello Fire Department did not seek permission for a legal burn until after an explation killed an employee working ith the waster.

The plant manager for Trejan and Astro said the Pire Department did all it could to help his company deal with the "buresucratic inertia" of the air quality district. But Stuart Carlton added that "Acting Fire Chiefi Tom McVelity is walking a tightrope."

One of Carlton's employees, Jose Diaz, 31, of San Bernardino, was killed in the July blast at Trojan and Astro, 2298 W. Stone-hurst Ave., while unloading wastes from a van into a bunker. The wastas included chemicals and powder left ever from fire-works manufacturing and faulty freworks that cannot be sold. Carlton said the wastas are put in legs and then stored.

Although no one will ever know for sure, Cariton said it is believed that Diaz may have stepped in some powder on the floor, and the friction detonated the gaphosion.

"I sort of voiced then that the guy was not going to die in vain, that we were going to get something done," Carlton said.

There was a years' worth of live wastes stored at Trojan and Astro, Chief McVelity said, and his fire inspectors knew about it.

> "We knew where it was See FREWORKS/Backpage

Fireworks: Live wastes may have caused blast

Continued from A1

stored, and we had some idea as to the quantity," he said. "We didn't ever write it down as a vioiation, because we knew the position they were in. They couldn't take (the wastes) anywhore or burn them."

McVeitty said his department cannot issue a burning permit unless it is approved by the air qualsty district. They weren't allowing any open burning permits, which put Trojan between a rock and a hard place. The only way to dispose of live wates is burning. ... llazardous waste dumps won't take it."

The fireworks company could have obtained burning permits before the explosion by asking the Fire Department is invoke a special rule, said district spokeswoman Jaqueline Switzer. The rule allows fire depart-

a hazardous situation exists that cannot be abated any way other than burning.

The permits are then taken to the air quality district, which gives final approval on days burning can take place, depending on factors such as the weather.

Switzer said the district's records show that Trujan did not contact her agency about burning permits until January 1988.

The air quality district approved burning permits for January through April, but the agency releated only because July's fittal explosion proved the need for getting rid of the wastes, McVeitty sald.

"Fve got burning permits on file here for fireworks and explosives companies that are stamped "Canceled" by the air quality district," McVeitty sald, adding that the latest one is dated April 1987. partment leaned on the district to approve burning. "I don't think everyone was aware of the zeriousness of the problem before the accident," he said.

If Trojan had burned the wastes without the district's approval and if the Fire Department had looked the other way, "very possibly the city would have gotten into trouble, and Trojan would have been subject to fines," McVeitty said.

Cariton doesn't know if the district will allow his plant to burn wastes after the April permit expires, but he noted that his company is allowed to test fireworks.

He predicted that in the fulure, some live wastes may find their way into the lests.

"That's the way I feel now," he said. "We'll call it testing, and if the air quality district makes

ENCLOSURE 5

PRELIMINARY ENVIRONMENTAL
SITE ASSESSMENT AND
LIMITED SOIL SAMPLING
2298 WEST STONEHURST DRIVE
RIALTO, CALIFORNIA
PREPARED FOR
VARNER, SALESON, AND BRANDT
JOB NO. 03095-9



Page No. 13 Job No. 03095-9

6.2 Sampling and Decontamination Procedures

Prior to sampling and between samples, all equipment was decontaminated in a detergent solution and rinsed twice with potable water to ensure that cross-contamination of samples did not occur. The sample packaging consisted of placing the soil directly into laboratory-cleaned glass jars with Teflonlined lids. The samples were labeled with the job number, sample number, depth, date, and time of collection and placed directly into a thermally-insulated container with Blue Ice. The samples were transported under chain-of-custody protocol (Enclosure "D") to a State of California Department of Health Services certified laboratory for analytical testing.

6.3 Laboratory Analyses

Based on the current and historical usage of the property, all samples were analyzed for Perchlorate by EPA Method 314. Additionally, three of the 10 soil samples were analyzed for Cam Metals by EPA Method 6010.

6.4 Analytical Results

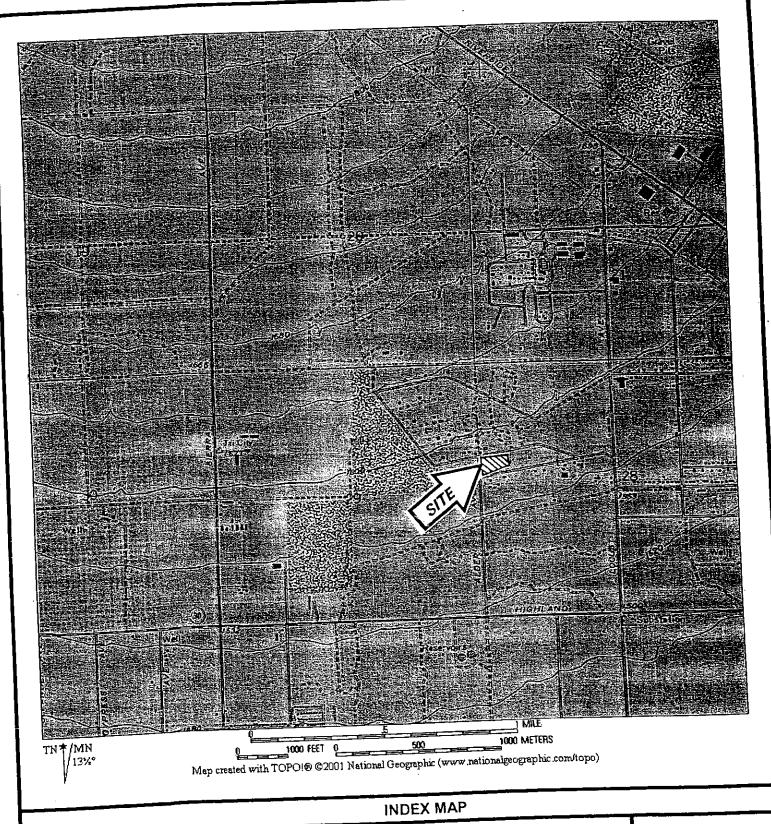
The analytical test results indicated detectable levels of Perchlorate in eight of the 10 samples collected. Concentrations generally ranged from 49 micrograms/kilogram (ppb) to 500 ppb. One sample (Sample No. S-6) obtained a result of 55,000 ppb or 55 parts per million (ppm) of Perchlorate. This sample underwent dilution at the laboratory in order to obtain a reading within the limits of the laboratory equipment.

The analytical results for metals testing on Samples No. S-1, S-2, and S-8, indicated levels below the total threshold limit concentration for each analyzed constituent. Sample No. S-8, however, was identified with a chromium concentration of 120 ppm. Although this concentration does not immediately identify the material as a hazardous waste, the soluble threshold limit concentration test would need to be conducted (based on the correlation obtained) to eliminate the potential that this material will be considered a hazardous waste.

The specific analytical results for all soil samples analyzed are summarized in Enclosure "E".

7.0 CONCLUSIONS

At the time of our site reconnaissance, the subject site consisted of a generally rectangular parcel of land occupying approximately 5 acres. The subject site was located at the western terminus of West Stone-

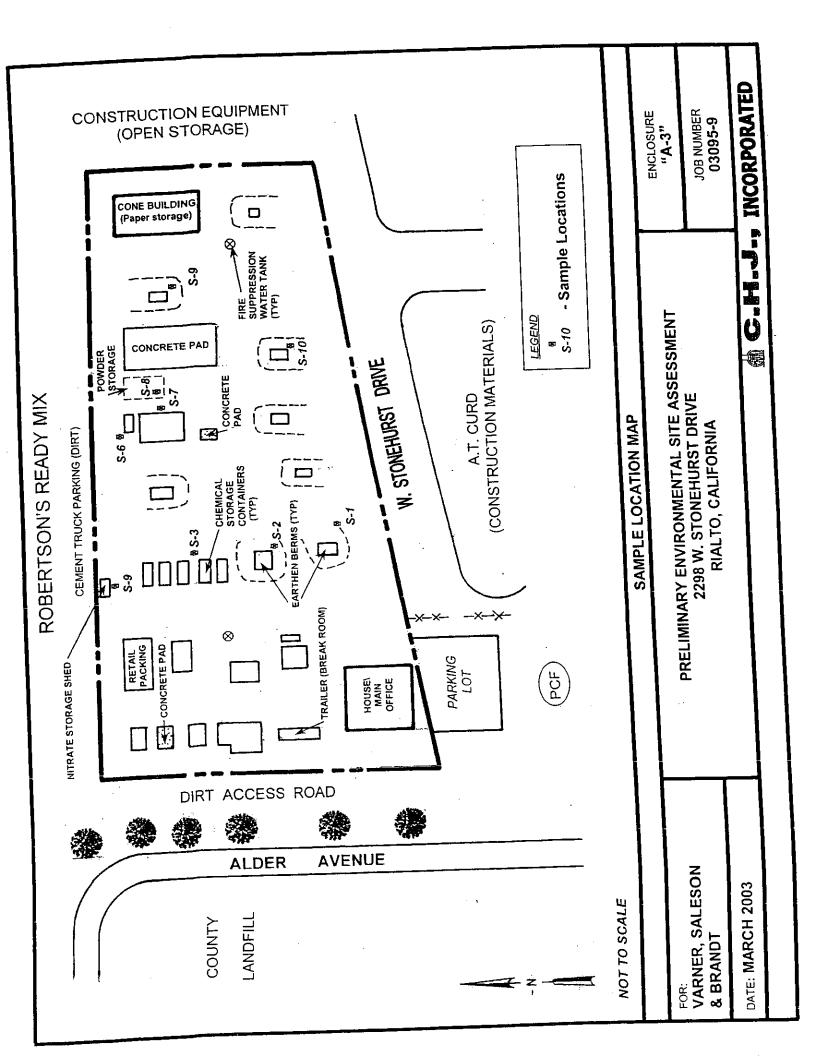


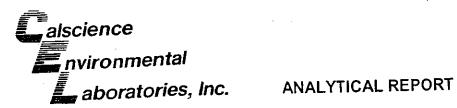
FOR: VARNER, SALESON & BRANDT PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT 2298 W. STONEHURST DRIVE RIALTO, CALIFORNIA ENCLOSURE "A-1"

DATE: MARCH 2003

JOB NUMBER 03095-9

© H.J., INCORPORATED





Centrum Analytical Laboratories, Inc. 1401 Research Park Drive, Suite 100 Riverside, CA 92507-2111	Date Sampled: Date Received: Date Analyzed:	02/14/03 02/17/03 02/19/03
Attn: Marilu Escher RE: Astro Pyrotechnics (A.P.) / 21842	Work Order No.: Method: Page 1 of 1	03-02-0884 EPA 314.0M

All concentrations are reported in µg/kg (ppb).

ola Number	Perchlorate Concentration	Reporting <u>Limit</u>
Sample Number S-1 S-2 S-3	500 260 ND 220	20 20 20 20 20
S-4 S-5 S-6 S-7 S-8 S-9 S-10 Method Blank	ND 55000 150 100 58 49 ND	20 4000 20 20 20 20 20

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.



QUALITY ASSURANCE SUMMARY

Method EPA 314.0M

Centrum Analytical Page 1 of 1		order No.: nalyzed:	0	3-02-0884 02/19/03	
Matrix Spike/Matrix Spike Sample Spiked: S-1	e Duplicate MS%REC	MSD%REC	Control <u>Limits (%)</u>	%RPD	Control Limits (%)
Analyte Perchorate	110	99	80 - 120	2	0 - 15
Laboratory Control Sam	ple Conc.	Conc.			Control
<u>Analyte</u> Perchorate	<u>Added</u> 250	<u>Rec.</u> 270	<u>%REC</u> 108		<u>Limits (%)</u> 85 - 115

•		<i>;</i> •		





Protection

California Regional Water Quality Control Board

Santa Ana Region

Internet Address: http://www.swrcb.ca.gov/rwqcb8 3737 Main Street, Suite 500, Riverside, California 92501-3348 Phone (909) 782-4130 - FAX (909) 781-6288



Gray Davis
Governor

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption.

For a list of simple ways you can reduce demand and cut your energy costs, see our website at www.swrcb.ca.gov/rwqcb8.

June 26, 2003

Mr. Eric G. Lardiere Whittaker Corporation 1955 N Surveryor Avenue Simi Valley, Ca 93063

Mr. Eric G. Lardiere Meggitt-USA Inc. 1955 N Surveryor Avenue Simi Valley, Ca 93063

DIRECTIVE TO CONDUCT A RECORDS INVESTIGATION AND SUBMIT A REPORT CONCERNING PERCHLORATE DISCHARGES IN THE RIALTO, COLTON AND CHINO GROUNDWATER BASINS, SAN BERNARDINO COUNTY, CALIFORNIA

Dear Mr. Lardiere:

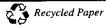
Perchlorate has been detected in municipal water supply wells in the Rialto, Colton and Chino Groundwater Subbasins in Southern California. These water supply wells are located downgradient of the former Whittaker Corporation facility. The facility was used to design, test and fabricate military and commercial pyrotechnic and explosive devices, which are likely to have contained perchlorate. Meggitt –USA Inc., Whittaker Corporation and their subsidiaries and predecessors, including but not limited to American Explosives Company, AMEX Products, Inc., Tasker Industries, and Whittaker Corporation (collectively Meggitt), are suspected dischargers of perchlorate.

This letter sets forth a requirement under California Water Code Section 13267 that Meggitt conduct an investigation of its records of historical operations at the Rialto site. As required by that provision, this letter contains an explanation of the need for the investigation, and cites evidence supporting the requirement.

Background

Perchlorate contamination was first detected in groundwater in the Rialto, Colton and Chino Groundwater Subbasins in 1997. At that time, the California Department of Health Services (DHS) Action Level (AL) for perchlorate in drinking water was 18 parts per billion (ppb). Two wells had perchlorate levels exceeding 18 ppb and were shut

California Environmental Protection Agency



down. In January 2002, the DHS lowered the AL to 4 ppb. In response to the reduced AL for perchlorate, the local water purveyors in the Rialto, Colton and Chino Groundwater Subbasins restricted or eliminated the use of additional production wells with perchlorate concentrations that exceeded 4 ppb (Enclosure 1). Between 1997 and the present, various suspected perchlorate dischargers, including Meggitt, have been identified.

Requirement for an Investigation

The Regional Board has directed staff to issue individual letters under California Water Code Section 13267 to suspected perchlorate dischargers. The Board also expressed a strong desire that suspected perchlorate dischargers work with the local water purveyors to provide a supply of replacement water during the loss or limited use of their production wells.

The Need for the Investigation

The Santa Ana Regional Water Quality Control Board is charged with the protection of water quality in this Region. We have been working actively with the water purveyors for several years to identify the extent and address the impact of perchlorate contamination on water resources in the Rialto, Colton and Chino Groundwater Subbasins. The water purveyors whose wells have been contaminated with perchlorate now face a state of emergency, and may not be able to provide an adequate water supply to their customers. It is urgent that the sources of the contamination be identified, and the magnitude of the perchlorate plume defined.

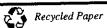
Evidence Supporting the Need for the Investigation and Report

Evidence indicates that American Explosives Company ("AEC") and AMEX Products operated a facility in Rialto, California from the late 1960's through approximately 1973. A City of Rialto Building Permit Application indicates that AEC operated a facility in the Rialto in the late 1960's (Enclosure 2). Other evidence indicates that AEC utilized an explosives storage bunker in Rialto (Enclosure 3). On or about September 2, 1969, AEC changed its name to AMEX Products, Inc. (Enclosure 4). Thereafter, AMEX Products became a division of Tasker Industries (Enclosure 5).

The Pacific Telephone and Telegraph Company directory for 1970 (page 129) contains a listing for AMEX Products Division of Tasker Industries, which indicated that AMEX Products had a plant and general office located at 2298 W. Stonehurst and a test range on Alder (Enclosure 5). These addresses, while listed as being in Fontana, are believed to be in what is presently Rialto. This directory listing further indicates that AMEX Products designed, tested and fabricated military and commercial pyrotechnic and explosive devices. Other historical evidence also indicates that AMEX and AEC produced explosives in Rialto (Enclosure 6).

On or about October 29, 1972, Tasker Industries merged into Whittaker Corporation (Enclosure 7). Records indicate that Whittaker Corporation thereafter owned the Rialto

California Environmental Protection Agency



facility until it sold the facility in or about 1974 (Enclosure 8). On or about July 14, 1999, Meggitt PLC acquired Whittaker Corporation (Enclosure 9).

Perchlorate is used in explosives and pyrotechnics. Records indicate that perchlorate and perchlorate containing materials were burned, detonated and otherwise disposed of at Broco. Other sites involved with the manufacture of explosives and the testing, burning and disposal of perchlorate-containing materials and wastes have had documented perchlorate discharges and contamination (e.g., www.geotracker.swrcb.ca.gov/perchlorate). An investigation by the County of San Bernardino in the vicinity of Broco's former Rialto operations and storage bunkers has revealed perchlorate contamination in the groundwater.

Based on the evidence, Meggitt is suspected of having discharged perchlorate waste that has adversely affected water quality. This evidence supports the requirement for an investigation, as defined in Section 13267(b)(1) of the California Water Code.

Deadlines

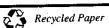
By July 31, 2003, a report containing the following information shall be submitted to the Regional Board staff:

- 1. A detailed description of Meggitt's past and present operations in the Rialto, Colton and Chino Groundwater Subbasins, including but not limited to, whether and when it used or handled perchlorate or perchlorate-containing materials and the approximate quantities of such materials; the operations, processes and activities involving perchlorate and perchlorate-containing materials, including testing and waste disposal practices; whether materials, off-spec or defective materials, or other wastes were burned or buried; any known or suspected discharges of perchlorate; any accidents, explosions or fires that may have occurred; and any other information that would be helpful in determining whether a discharge of perchlorate occurred from Meggitt's operations.
- 2. Any documents pertaining to and/or describing Meggitt's operations in Rialto, Colton and Chino Groundwater Subbasins, including but not limited to maps, plans, diagrams and photographs of the facility and its operations, records pertaining to perchlorate and perchlorate-containing materials, waste disposal records, operating procedures, environmental investigation and remediation reports, and employee lists.

Failure to submit the required Information by the specified deadline will subject you to administrative civil liability in the amount of up to \$1,000 per day pursuant to Section 13268(a) and (b) of the California Water Code.

Finally, please be aware that the Board has directed staff to explore alternative ways of solving the water supply problem in the Rialto, Colton and Chino Groundwater Subbasins. In addition, consistent with the Board's direction, we have issued and will continue to issue similar directives to a number of other suspected dischargers who have operated in the Rialto, Colton and Chino Subbasins. Thus, there may be opportunities to cooperate with other entities to implement joint investigations or to

California Environmental Protection Agency



propose solutions that would address the water supply problem. In fact, we believe it would be both scientifically effective and economically efficient for the suspected dischargers subject to these directives to jointly pursue the investigation and to explore water supply replacement options. Further, consistent with the Board's direction, we recommend that the joint efforts of the suspected dischargers consider both the characterization of the contamination and initiation of water supply replacement or treatment strategies. Board staff has experience in managing similar joint investigations and cooperative solutions. If you are interested in discussing such joint efforts, please contact us to arrange a meeting.

Recovery of Regional Board Expenses

California Water Code Section 13365 addresses the billing process for the Regional Board to recover reasonable expenses for overseeing investigation of illegal discharges, contaminated properties, and other unregulated releases that may adversely affect the State's waters. It is the Regional Board's intent to recover such costs for regulatory oversight work conducted in accordance with this order. A description of the Board's procedure for cost recovery for regulatory oversight of investigations and cleanups will be sent to you under separate cover.

If you have any questions about this letter, please contact Kamron Saremi at (909) 782-4303 or you may call Ann Sturdivant, Chief of our Spills, Leaks, Investigations and Cleanups Section, at (909) 782-4904.

Sincerely,

Gerard J. Thibeault
Executive Officer

Enclosures:

- Well Location Map, showing perchlorate contamination in municipal water supply wells.
- 2. American Explosives, Application for Building Permit, Department of Building and Safety, City of Rialto.
- 3. Diagram of explosive storage bunkers, Rialto, California.
- 4. Corporate Records & Business Registrations, Westlaw, June 28, 2002.
- 5. Excerpt from Pacific Telephone and Telegraph Company Directory, 1970.
- 6. Letter from O.D. Peters, Trojan Fireworks Co., to City of Rialto Planning Commission, January 9, 1973.
- 7. Tasker Industries, California Secretary of State, corporate records, March 5, 2003.
- 8. Escrow Instructions, Union Bank, April 24, 1974.
- 9. Press Release, Meggitt PLC, July 14, 1999; Schedule 14D-1, Securities and Exchange Commission.
- 10. Mailing List

cc (w/out enclosures):
Regional Board members
Jorge Leon, Office of Chief Counsel, SWRCB
Wayne Praskins, U.S. EPA, Region IX
Inland Empire Perchlorate Task Force members (mailing list attached)

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Leon Long West Valley Water District P.O. Box 920 Rialto, CA 92377-0920

Tim Mim Mack City of Rialto P. O. Box 920 Rialto, CA 92376

Sarah Mueller
U. S. EPA - Region 9
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Robert Owen City of Rialto P. O. Box 920 Rialto, CA 92376 Eric Fraser City of Colton Public Utilities Department 650 N. La Cadena Drive Colton, CA 92324-2897

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Tim Ryan San Gabriel Valley Water Company Fontana Water Company 11142 E. Garvey Ave. El Monte, CA 91732

Nell Soto Thirty-second Senatorial District The Honorable Senator Nell Soto State Capital, Room 4074 Sacramento, CA 95814

Gene Tanaka, Esq. Best, Best & Kreiger 3750 University Ave., Mission Square Riverside, CA 92501

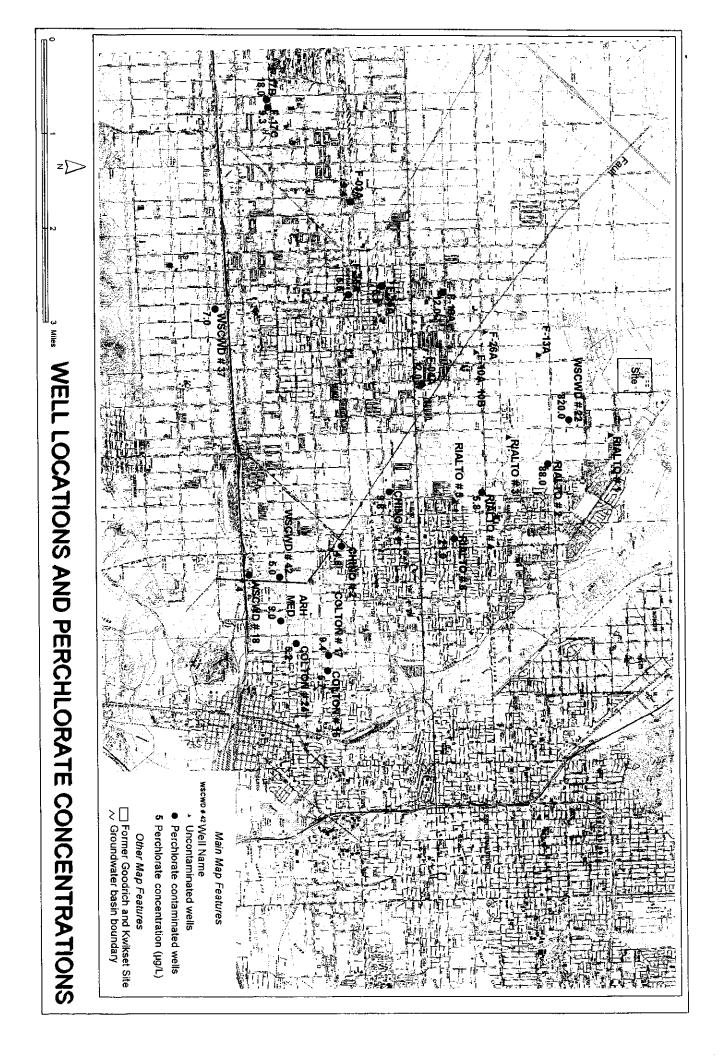
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Michael Wochnick California Integrated Waste Management P.O. Box 4025 Sacramento, CA 95812-4025

Robert Young
San Gabriel Valley Water Company
Fontana Water Company
11142 E. Garvey Ave.
El Monte, CA 91732

ENCLOSURE 1

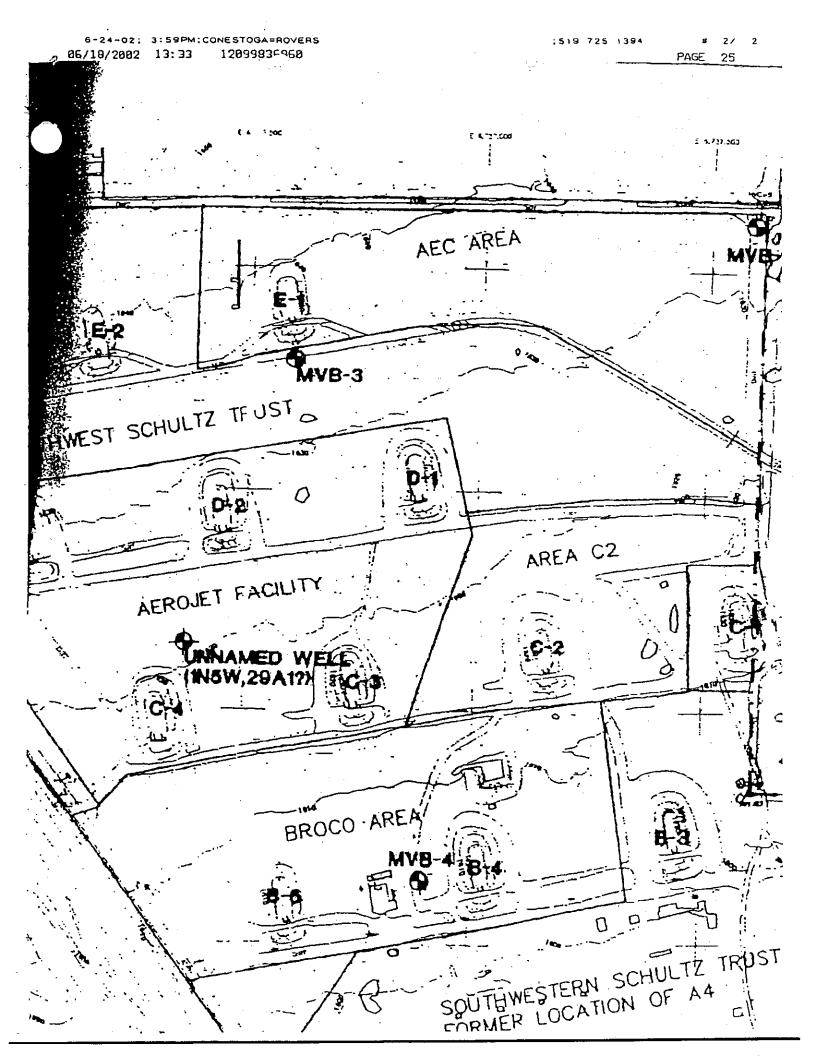
Well Location Map showing perchlorate contamination in municipal water supply wells



Enclosure 2

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Citation 51654706413 Search Result

Rank(R) 2 of 147

Database CORP-ALL

51654706413

CORPORATE RECORDS & BUSINESS REGISTRATIONS

This Record Last Updated:

Database Last Updated:

Update Frequency:

Current Date:

Source:

06/28/2002

09-26-2002

Weekly

09/26/2002

As reported by the Secretary of State or other

official source

COMPANY INFORMATION

Name:

DELTA T., INC.

NAME INFORMATION

Former Name:

Former Name:

AMERICAN EXPLOSIVES CO., INC.

AMEX PRODUCTS, INC.

FILING INFORMATION

Filing Date:

State of Incorporation:

Date Incorporated:

Status:

Corporation Type:

Business Type: Address Type:

Registration ID#:

Where Filed:

07/31/1964 California

07/31/1964 DISSOLVED

Profit

Corporation

Mailing

C0475451

SECRETARY OF STATE/CORPORATIONS DIVISION

1500 - 11TH STREET SACRAMENTO, CA 95814

AMENDMENT INFORMATION

Amendments:

08/06/1970 Dissolution Of Corporation;

CERTIFICATE OF DISSOLUTION WAS FILED

09/02/1969 Name Change; AMEX PRODUCTS, INC. 08/22/1969 Notice Of Dissolution; CERTIFICATE

OF ELECTION TO DISSOLVE WAS FILED

01/22/1968 Name Change; AMERICAN EXPLOSIVES

CO., INC.

08/18/1966 Miscellaneous; RESTATED ARTICLES

06/02/1966 Miscellaneous; CERTIFICATE OF

AMENDMENT FILED

05/19/1966 Miscellaneous; CERTIFICATE OF

AMENDMENT FILED

TAX INFORMATION

Copr. (C) West 2002 No Claim to Orig. U.S. Govt. Works



51654706413

Franchise Tax Details: Status:

Good Standing

ADDITIONAL DETAIL INFORMATION

The preceding public record data is for information purposes only and is not the official record. Certified copies can only be obtained from the official source.

Copr. (C) West 2002 No Claim to Orig. U.S. Govt. Works

Westlaw.



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Lagran & St. St. St. All ars' Equipment & Supplies-Realing errice Stores & Yards to a heading descriptive of the d equipment.

HICE

Escrow Inc. 1739 North D St SBdo 882-2926 CALIFORNIA N A THE
La Cadena Dr & C Clin. 825-0141
ERICAN TITLE COMPANY
BERNARDINO
BERNARDINO
COURT S8do. 889-0311

323 W Court SBdo - 889-0311 FEDERAL SAVINGS

Santa Fe Federal Savings

& Loan a Year

OFFICES

Fe Federal Savings & Loan n 1604 E Highland SBdo .889-0231 Fe Federal Savings & Loan 4066 N Sierra Wy SBdo .889-0231 Fe Federal Savings & Loan Assn 479 W 4th SBdo .889-0231

MAIN OFFICE

Fe Federal Savings & Loan Assn 701 North E SBdo 889-0231

PACIFIC NATIONAL BANK

JS R

FONTANA BRANCH

RAND TERRACE BRANCH

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ALTO-RIVERSIDE BRANCH y Pacific National Bank S Riverside Rito...... 875-6000

SCROW CO 17169 Slove Fon. 822-7062 IN CITIES ESCROW CO

ST EFFICIENT ESCROW SERVICE George Maudsley & Carol Kelly

V Arrowhead 5Bdo.... 886-4741

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Emergency Service To Contractors DAY: OR NIGHT 18177 Hawthorne Bim.....822-5522

Or call877-2327

Jansen Don Back-Hoe Service 687-5028 (Please See Advertisement This Page) Leonard J C 18295 Hawthrne Blm. 822-1625 Peterson Bros Equip Co 23985½ Redlands SBdo .825-0871 (Please See Advertisement This Page)

Yeager E L Construction Co Inc. 1995 Agua Mansa Rd Riv. 877-2250

When you need a service offered by a city, county, state or federal government agency try the new easy reference guide of frequently called numbers under "Government Offices".

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EXCAYATING & GRADING & DITCHING
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5 - 12" TO 44" FROJAN 4/5 YARD
DEES . JSO ANGLE DOZER

H. R. ISONNY) PETERSON

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Excavating & Disching Equipment

Duncan Warren Excavating Equipt
1600 Penna Citn. 825-1546

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Harshman's Precision Mach Shop.

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- Make certain, if you are using a dial telephone, that the line is clear before you dial.
- Space your calls instead of making several without a break.
- Talk only as long as necessary on each call.
- When you finish talking replace the receiver properly.
- Ask your youngsters to be cansiderate, too.

FORD 5500

Explosives ...

AMEX PRODUCTS

DESIGN, TESTING FABRICATION OF PYROTECHNIC & **EXPLOSIVE DEVICES** Military & Commercial



FOR INFORMATION CALL

PLANT & GENERAL OFFICE

AMEX PRODUCTS DIVISION OF TASKER INDUSTRIES 2298 W Stonehurst Fon. 823-1395

TEST RANGE

AMEX Products Division of Tasker Industries Test Range Alder Fontana....823-1577

AMEX Products Division of Tasker Industries

Test Range Alder Fon. 823-1577
2298 W Stonehurst Fon. 823-1395
DUPONT EXPLOSIVES—
MARGRAF EXPLOSIVE INC.

16782 Arrow Fon. 822-1181

Explosives Engineering Carp Highland & Alder Fon: 822-2480 Margraf Explosive Inc 16782 Arrow Fon: 822-1181

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REDLANDS BLVD.

SAN BERNARDING

For information 687-5028

"EXPERIENCED OPERATORS" DON JANSEN BACKHOE SERVICE

RIVERSIDE SMALL & LARGE JOBS - HOURLY RATE

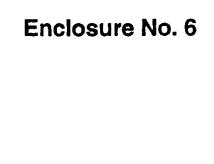
BUSINESS

TELEPHONE NUMBERS

> and addresses are tound more quickly in the Classifled Telephone Directory.

> > - 5 - W/3

GET THE



SARWQCB LIL

TROJAN FIREWORKS CO. - 13500 EXCELSIOR DRIVE - NORWALK, CALIFORNIA 90650

adiress mail for F.U. Ball and Committee of the Committee

January 9, 1973



City of Rialto
Planning Commission
Mr. Richard E. Downing, Director
150 South Palm Avenue
Rialto, Callfornia 92376

Re: APPLICATION FOR CONDITIONAL DEVELOPMENT. 2-1/2 Acres N/E Corner Stonehurst and Alder Streets, Rialto, California

Gentlemen:

We respectfully submit herewith our application for conditional development of the stated property, now located in the City of Rialto.

It is our intention to re-activate this plant and manufacture only California "safe and sane" commercial fireworks as approved by the State Fire Marshal for retail sale each fourth of July season. Although this facility was formerly licensed and used by American Explosives Company (AMEX) for production of military pyrotechnics, we do not intend to engage in the production of Class A explosives, but Ilmit it to Class C only.

The plot plan submitted herewith indicates the proposed usage of existing structures. Storage, both existing and proposed, will most likely consist of only such raw materials as paper tubes, paper cones, corrugated shipping containers, adhesives, labels, etc. Chemical storage is scheduled for our facilities immediately to the north in the former government bunkers where we operate our display fireworks division, known as Astro Pyrotecnsics. As goods are finished in this facility they will be dispatched to our Normalk warehouses via our own vehicular equipment, for final assembly and packaging.

Any doubts as to the ability of our company to set-up, maintain and operate such a facility can readily be answered. The petitioner, 0. D. Peters, president, has over 27 years experience in this field, our vice-president, Mr. B. W. Wells is probably one of the outstanding pyrotechnicians in the world

Continued

City of Rialto Planning Commission Page -2-January 9, 1973

(see resume attached), and the plant superintendent, Mr. Gerald Gerth is likewise well-versed in the field, being a graduate chemical engineer from California Institute of Technology.

We look forward to favorable action on our application, and pledge our efforts to making this a production facility that will please the administrators and citizens of Rialto. If further facts or information is needed, please call on us.

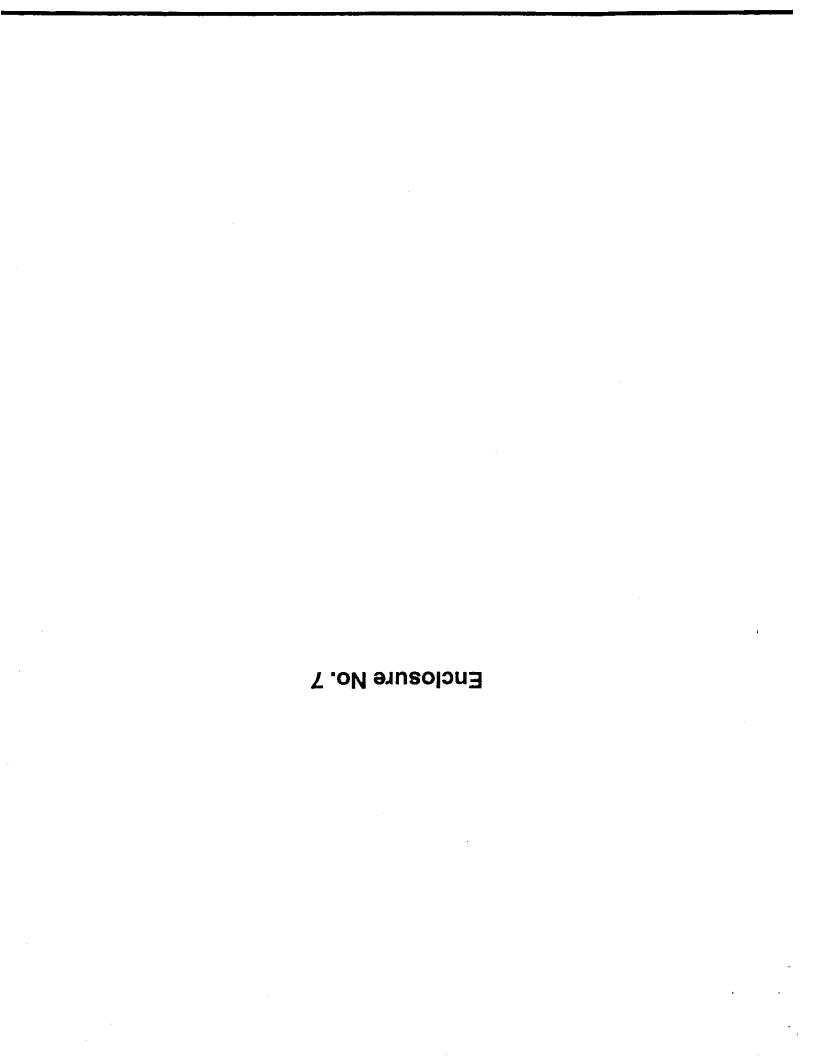
Yours very truly,

TROJAN FIREWORKS CO.

O. D. Peters, President

ODP; dv

Enc.



AutoTrack Home Feedback Results Manager New Search Sign Off Help/Support Permissible Use Reference: GRICH7103

Detail

Corporate Records



Order a Report based on this Detail | Previous Screen

	CAL	IFORNIA SECRETARY OF STATE	
Name:	TASKER INDUS	STRIES	
Type:	ARTICLES OF I	INCORPORATION	
Status:	INACTIVE - ME	RGED OUT	i i
Date incorporated:	10/24/1956	Foreign State of Incorporation:	CALIFORNIA
Corporation Number:	C0328628	FEI Number:	

Corporation Officers:	$\overline{}$
]

Corporation Addresses:

	Additional Corporation Information:				
Date: Type:	09/17/1957 CERTIFICATE OF AMENDMENT		·		
Date: Type:	03/20/1959 CERTIFICATE OF AMENDMENT				
Date: Type:	11/22/1961 CERTIFICATE OF AMENDMENT				
Date: Type:	02/05/1964 CERTIFICATE OF AMENDMENT				
Date: Type:	12/22/1966 CERTIFICATE OF AMENDMENT		· ·········· .		
Date: Type:	12/23/1968 CERTIFICATE OF AMENDMENT				
Date: Type:	06/12/1969 CERTIFICATE OF AMENDMENT				
Date: Type:	08/29/1969 CERTIFICATE OF AMENDMENT				

	06/04/1970
(CERTIFICATE OF AMENDMENT
•	10/28/1972
(CERTIFICATE OF AMENDMENT
(02/20/1970
1	MERGER
h	MERGED IN 60039722 ELECTRONIC RESOURCES, INC.
1	10/29/1972
٨	MERGER
C	OUTGOING-MERGED INTO 60039723 WHITTAKER CORPORATION
1	0/29/1972
	MERGER
(OUTGOING-MERGED INTO C0219185 60039723 WHITTAKER CORPORATION
(02/20/1970
	MERGER
	MERGED IN C0559441 60039722 ELECTRONIC RESOURCES, INC.



NORMAN S. BERLINER ATTORNEY AND COUNSELOR AT LAW 230 SOUTH MISSION ROAD LOS ANGELES, CALIFORNIA 90033 6558-635 (CSE)

FAX (323) 244-1244

March 21, 2003

Mile: Pyro Spectacula (Astro pyrotechnici)

Mr. Kameron Saremi California Regional Water Quality Control Board - Santa Ana Region 3737 Main Street, Suite 500 Riverside, California 92501-3348

> Thomas O. Peters - Property at 2298 West Stonehurst, Rialto, California

Dear Mr. Saremi:

Please remember that we have had some telephone conversations about this property concerning the problem of perchlorate contamination.

At our last conversation you requested that I identify the property by legal description so that you can be sure we are talking about the same location.

In response to your request, I am enclosing herewith two legal descriptions with a Plot Map attached to each one showing the location of the property, which actually constitutes three (3) different lots.

I am writing because I did not think the legal descriptions would reproduce intelligibly.

You can call me at the above number. I am in the office almost every afternoon. Otherwise, I will call you in a few days.

Thank you again for your cooperation and help.

Very truly yours,

NORMAN S. BERLINER

NSB: 1b Encls.

SARWQCB U

Union Bank

CONTURY CLTY

VEELCE

ESCROW DEPARTMENT ESCROW INSTRUCTIONS

ESCROW No. 206-480

DATE APRIL 24, 1974

TO UNION BANK

The previous instructions in the above numbered escrow are hereby modified—supplemented and/or amended in the following particulars only:

The undersigned WHITIAKER CORPORATION hands you herewith a Grant Deed to ROMENT LEGENZE REPRESENT A married man, covering property described as:

The east 150 feet, measured along the mertherly line thermof, of that portion of the south 660 feet of the mertheest & of Section 28, Township 1 North, Range 5 West, Sem Bernerdine Heridian, in the County of Sem Bernerdino, State of California, according to the official plat thereof, described as follows:

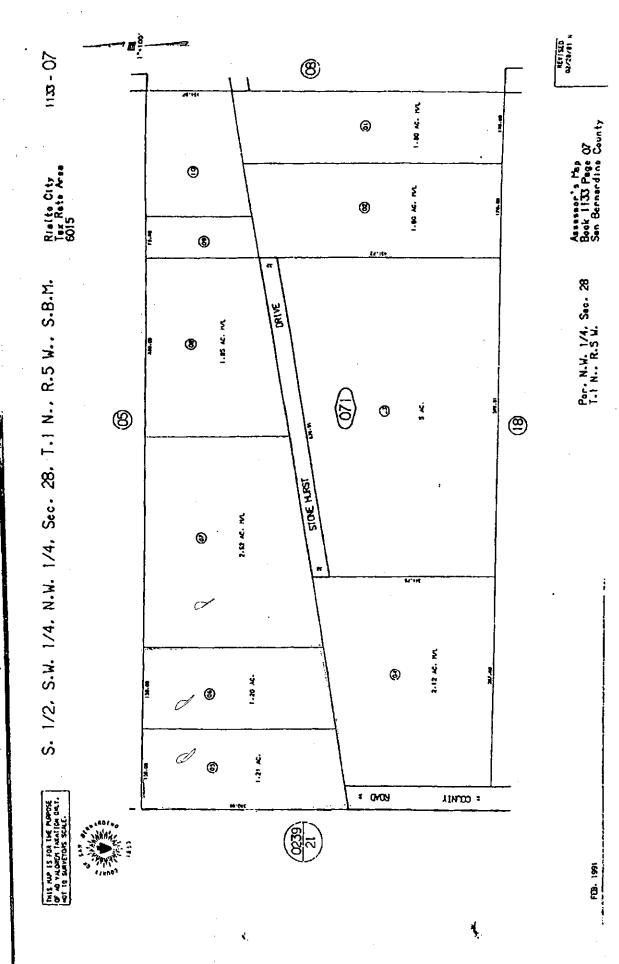
Commescing at a point in the south line of said morthwest k, distant North 89° 51' West 1319.36 feet thereon from the center of said Section 28; thesce mlong a line that bears North 0° 32' Nest to a point that bears South 0° 32' Reat 150.32 feet from the North line of said South 660 feet; thence South 79° 37' West to a point in the west line of said Section 28 for the true point of beginning; thence North 0° 37' 45" Nest 390 feet to the morthwest corner of the South 660 feet of the morthwest k of said section 28; thence South 89° 51' East 300 feet along said morth line; thance South 0° 37' 45" East to a point in a line that bears North 79° 37' East from the true point of beginning; thence South 79° 37' West to the true point of beginning.

You are authorized to use and record said Deed without further consideration to the Seller when Title Insurance and Trust Company can re-issue their Policy of Title Insurance No. 658439 showing a corrected legal description to include the property described above, said property being subject only to all 1974-1975 general and special terms and items I thru 3 as shown on that certain Preliminary Report of Title \$675533 dated February 11, 1974. Instruct the title company to affix \$-0-Documentary Transfer Tax to the Deed.

The parties will hand you sufficient funds in order to enable for you to comply with these instructions and in accordance with the original Escrew Instructions.

EACH OF THE UNDERSIGNED STATES HE HA	AS READ THE FOREGOING INSTRUCTIONS
AND UNDERSTANDS AND AGREES TO THEM.	WEITTAKER CORPORATION,
	a corporation
Robert Leonard Kinnerd	<u> </u>
PODELL PROMETA VERMENA	Bi
······································	

E 8 8 SARWOCB



Schedule C

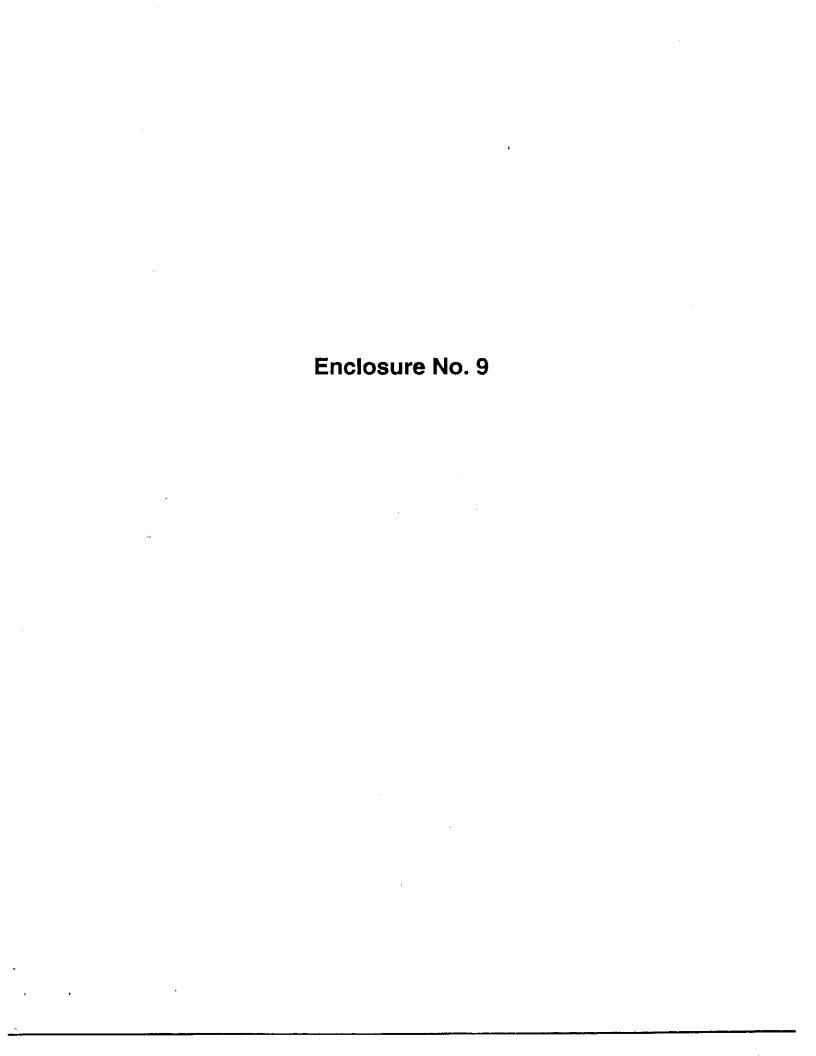
The land referred to in this policy is described as follows:

THAT PORTION OF THE SOUTH 660 FEET OF THE NORTHWEST ONE-QUARTER OF SECTION 28, TOWNSHIP 1 NORTH, RANGE 5 WEST, SAN BERNARDINO MERIDIAN, IN THE COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL PLAT THEREOF, DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHWEST CORNER OF THE SOUTH 660 FEET OF SAID NORTHWEST ONE-QUARTER OF SECTION 28; THENCE EAST ALONG THE NORTH LINE OF SAID SOUTH 660 FEET, 300 FEET TO THE NORTHEAST CORNER OF PROPERTY CONVEYED TO WILLIAM L. LYON AND WIFE, BY DEED RECORDED MAY 12, 1955 IN BOOK 3643 PAGE 154, OFFICIAL RECORDS, BEING THE TRUE POINT OF BEGINNING; THENCE CONTINUING EAST ALONG THE NORTH LINE OF SAID SOUTH 660 FEET TO THE NORTHWEST CORNER OF THE PROPERTY CONVEYED TO JAMES G. JEFFERYS AND WIFE BY DEED RECORDED DECEMBER 31, 1954 IN BOOK 3537 PAGE 326 OFFICIAL RECORDS; THENCE SOUTH ALONG THE WEST LINE OF SAID JEFFREYS PROPERTY TO THE SOUTHWEST CORNER THEREOF; THENCE SOUTH 79° 37' WEST TO THE SOUTHEAST CORNER OF SAID WILLIAM L. LYON PROPERTY; THENCE NORTH ALONG THE EAST LINE OF SAID LYON PROPERTY TO THE POINT OF BEGINNING.

S A R W Q C B

88



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----BEGIN PRIVACY-ENHANCED MESSAGE-----
Proc-Type: 2001, MIC-CLEAR
Originator-Name: webmaster@www.sec.gov
Originator-Key-Asymmetric:
MFgwCgYEVQgBAQICAf8DSgAwRwJAW2sNKK9AVtBzYZmI6aGjlWyK3XmZv3dTINen
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MIC-Info: RSA-MD5, RSA,
 PTOnn/XxsNrgyk+EKTTQ4IMSNayWllltxYgsISqp6zr8A6g5j+WXgMYkDNtAAaal
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CONFORMED SUBMISSION TYPE:
                               SC 14D1/A
PUBLIC DOCUMENT COUNT:
PILED AS OF DATE:
                               19990714
                               MEGGIT PLC
GROUP NEMBERS:
                               MEGGITT ACQUISITION INC.
GROUP MEMBERS:
SUBJECT COMPANY:
          COMPANY DATA:
                     COMPANY CONFORMED NAME:
                                                                        WHITTAKER CORP
                     CENTRAL INDEX KEY:
                                                              0000106945
                     STANDARD INDUSTRIAL CLASSIFICATION:
                                                              MISCELLANEOUS FABRICATED METAL PRODUCTS (3490)
                                                                        954033076
                     IRS NUMBER:
                                                                        DΕ
                     STATE OF INCORPORATION:
                     FISCAL YEAR END:
                                                              1031
          FILING VALUES:
                     FORM TYPE:
                                         SC 14D1/A
                     SEC ACT:
                     SEC FILE NUMBER:
                                         005-08936
                                                   99664198
                     PILM NUMBER:
           BUSINESS ADDRESS:
                                         1955 NORTH SURVEYOR AVENUE
                     STREET 1:
                     CITY:
                                                   SIMI VALLEY
                     STATE:
                                                   CA
                     ZIP:
                                                   93063-3388
                     BUSINESS PHONE:
                                                   8055265700
           MAIL ADDRESS:
                     STREET 1:
                                         1955 NORTH SURVEYOR AVENUE
                                                   SIMI VALLEY
                     CITY:
                     STATE:
                                                   CA
                                                   93063-3388
                     ZIP:
FILED BY:
           COMPANY DATA:
                                                                         MEGGIT PLC
                     COMPANY CONFORMED NAME:
                                                              0001088472
                     CENTRAL INDEX KEY:
                     STANDARD INDUSTRIAL CLASSIFICATION:
                                                               []
           FILING VALUES:
                                          SC 14D1/A
                     FORM TYPE:
           BUSINESS ADDRESS:
                     STREET 1:
                                          PARRS HOUSE
                     STREET 2:
                                          COWGROVE BH21 4EL
                                                    WIMBORNE DORSET UK
                     CITY:
                     BUSINESS PHONE:
                                                    01101202847819
           MAIL ADDRESS:
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                     STREET 2:
                                          COWGROVE BH21 4EL
                                                    WIMBORNE DORSET UK
                     CITY:
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 <TEXT>
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SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

SCHEDULE 14D-1
(AMENDMENT NO. 4)
TENDER OFFER STATEMENT
PURSUANT TO SECTION 14(D)(1)
OF THE SECURITIES EXCHANGE ACT OF 1934

WHITTAKER CORPORATION (Name of Subject Company)

MEGGITT ACQUISITION INC.

MEGGITT PLC

(Bidders)

COMMON STOCK, \$0.01 PAR VALUE (Title of Class of Securities)

966680100 (CUSIP Number of Common Stock)

PHILIP B. GREEN

GROUP CORPORATE AFFAIRS DIRECTOR

MEGGITT PLC

FARRS HOUSE, COWGROVE

WIMBORNE, DORSET BH21 4RL, UNITED KINGDOM

011-44-1202-847847

(Name Address and Telephone Number of Person Authorized to
Receive Notices and Communications on Behalf of Bidders)

COPY TO: ELLEN J. ODONER, ESQ. WEIL, GOTSHAL & MANGES LLP 767 FIFTH AVENUE NEW YORK, NEW YORK 10153

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TENDER OFFER

This Amendment No. 4 further amends and supplements the Tender Offer Statement on Schedule 14D-1 initially filed on June 15, 1999 (as amended and supplemented, the "Statement") by Meggitt Acquisition Inc., a Delaware corporation (the "Purchaser"), and Meggitt PLC, a public limited company organized under the laws of England and Wales (the "Parent"), relating to the offer by Purchaser to purchase all shares of common stock, \$0.01 par value (the "Shares"), of Whittaker Corporation, a Delaware corporation (the "Company"), at \$28.00 per Share, net to the Seller in cash, on the terms and subject to the conditions set forth in the Offer to Purchase, dated June 15, 1999 (the "Offer to Purchase"), and in the related Letter of Transmittal. The Offer also was made for all shares of Series D Participating Convertible Preferred Stock, \$1.00 par value, of the Company, at \$9,142.87, net to the Seller in cash, on the terms and subject to the conditions set forth in the Offer. Unless otherwise indicated, the capitalized terms used herein shall have the meanings specified in the Statement, including the Offer to Purchase filed as Exhibit (a)(1) thereto.

ITEM 10. ADDITIONAL INFORMATION

The Offer expired at 12:00 midnight, New York City time, on

Tuesday, July 13, 1999. Purchaser accepted for payment 11,386,127 Shares, including 1,088,124 Shares tendered by means of guaranteed delivery. As a result of the Offer, Purchaser now owns in excess of 92% of the Company's approximately 12.3 million outstanding Shares and intends promptly to complete the acquisition by means of a merger with the Company. On July 14, 1999, Parent issued a press release, the text of which is set forth as Exhibit (a) (11) hereto, and is incorporated by reference herein.

ITEM 11. MATERIAL TO BE FILED AS EXHIBITS

(a) (11) Text of Press Release of Parent dated July 14 1999.

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SIGNATURE

After due inquiry and to the best of my knowledge and belief, the undersigned certifies that the information set forth in this statement is true, complete and correct.

Dated: July 14, 1999

MEGGITT ACQUISITION INC.

By: /s/ Bennett F. Moore

Name: Bennett F. Moore Title: Vice President and Secretary

MEGGITT AMERICA, INC.

By: /s/ Bennett P. Moore

Name: Bennett F. Moore Title: President

MEGGITT-USA, INC.

By: /s/ Bennett F. Moore

Name: Bennett F. Moore Title: President and Secretary

MEGGITT INTERNATIONAL LIMITED

By: /s/ Philip E. Green

Name: Philip E. Green Title: Director

MEGGITT PLC

By: /s/ Philip E. Green

Name: Philip E. Green

Title: Group Corporate Affairs Director

<PAGE>

EXHIBIT INDEX

EXHIBIT

http://www.sec.gov/Archives/edgar/data/106945/0000909518-99-000479.txt

(a) (11) Text of Press Release of Parent dated July 14, 1999

Exhibit (a) (11)

MEGGITT PLC

TENDER OFFER FOR WHITTAKER CORPORATION SUCCESSFULLY COMPLETED

Meggitt PLC ("Meggitt") announces the successful completion of its tender offer to purchase all of the outstanding shares of common stock of Whittaker Corporation at US\$28 net per share in cash.

The tender offer expired, at 12:00 midnight, New York City time, on Tuesday, 13 July 1999. Meggitt accepted for payment 11,386,127 shares of Whittaker's common stock, including 1,088,124 shares tendered by means of guaranteed delivery.

As a result of the tender offer, Meggitt now owns some 92% of Whittaker's approximately 12.3 million outstanding shares of common stock and intends promptly to complete the acquisition by means of the merger of Whittaker with a wholly-owned Meggitt subsidiary.

Mike Stacey, Chief Executive, said "I am very pleased to be able to announce the completion of our tender offer for Whittaker Corporation. This acquisition is an important milestone in the strategic development of Meggitt and I look forward to the future of the enlarged Group with considerable confidence".

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California Regional Water Quality Control Board

Santa Ana Region

Winston H. Hickox Secretary for Environmental Protection Internet Address: http://www.swrcb.ca.gov/rwqcb8 3737 Main Street, Suite 500, Riverside, California 92501-3348 Phone (909) 782-4130 - FAX (909) 781-6288

Gray Davis Governor

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption.

For a list of simple ways you can reduce demand and cut your energy costs, see out website at www.swrcb.ca.gov/rwqcb8.

October 21, 2003

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Eric G. Lardiere Whittaker Corporation 1955 N. Surveyor Avenue Simi Valley, CA 93063

DIRECTIVE TO SUBMIT A WORK PLAN AND CONDUCT A PERCHLORATE INVESTIGATION IN THE VICINITY OF 2298 WEST STONEHURST, CITY OF RIALTO, SAN BERNARDINO COUNTY, CALIFORNIA

Dear Mr. Lardiere:

Thank you for your response to my June 26, 2003 Directive to Conduct a Records Investigation and Submit a Report Concerning Perchlorate Discharges (Directive) in the Rialto, Colton and Chino Groundwater Basins, San Bernardino County. The Directive was issued to Meggitt-USA, Inc., and Whittaker Corporation (Whittaker). Your response states that Whittaker is an indirect, wholly owned subsidiary of Meggitt-USA, Inc., and therefore Meggitt-USA is a separate corporation with no affiliation to the former facility in Rialto. You have requested that all of our communication regarding the former Amex/Whittaker facility at 2298 West Stonehurst, Rialto, be addressed to Whittaker.

Your letter states that Whittaker owned a majority share of Tasker Industries, Inc., (Tasker) prior to Tasker merging into Whittaker in October of 1972; that Tasker acquired Amex Products, Inc., (Amex) including real properties located at 2298 West Stonehurst, Rialto, in 1969; and that Tasker operated Amex until approximately April of 1971. However, a Union Bank Escrow Department document provided to Board staff by the current owner of the property indicates that Whittaker continued to own the property until its sale to Robert Kennard in 1974. Your response also states that you have conducted a search of Whittaker records for information and documents responsive to my Directive. You have provided copies of certain Whittaker telephone directories; Amex products listings; descriptions of Amex facilities, machinery and equipment; and one Tasker employee list. According to your response, you have not located any additional records at this time.

According to the 1969 Amex Products, Inc., Product Information and Pricing document, provided with your response, Amex was in the business of manufacturing flares and ordnance; leased at least one of the former bunker buildings located on property

California Environmental Protection Agency

adjacent to the Stonehurst address; operated a chemical laboratory; utilized two buildings (located west of the former bunker) for powder mixing; and operated a test range located on 15 acres northwest of the Amex plant, that included a permanent test stand.

Our research indicates that it is common practice to use perchlorate salts as oxidizers in the manufacturing of flares and ordnance. More specifically, the Contemporary Trade Formula Chart identifies the use of 15%-73% perchlorate in certain Amex products (see Enclosure 5). In addition, Whittaker is known to have used perchlorate in its rmanufacturing of flares and ordnance at other facilities, such as the former Santa Clarita military flare and munitions facility and facilities outside of California. Based on the evidence, Whittaker's subsidiary, Amex, is suspected of having discharged perchlorate waste that has adversely affected water quality.

This letter sets forth a requirement under California Water Code Section 13267 that Whittaker conduct an investigation to define the lateral and vertical extent of perchlorate in soil and groundwater in the vicinity of 2298 West Stonehurst, Rialto, including the bunker and test range areas. As required by that provision, this letter contains an explanation of the need for the investigation, and cites evidence supporting the requirement.

Background

Perchlorate contamination was first detected in groundwater in the Rialto, Colton, and Chino Groundwater Subbasins in 1997. At that time, the California Department of Health Services (DHS) Action Level (AL) for perchlorate in drinking water was 18 parts per billion (ppb). Two wells had perchlorate levels exceeding 18 ppb and were shut down. In January 2002, the DHS lowered the AL to 4 ppb. In response to the reduced AL for perchlorate, the local water purveyors in the Rialto, Colton and Chino Groundwater Subbasins restricted or eliminated the use of additional production wells with perchlorate concentrations that exceeded 4 ppb. Between 1997 and the present, various suspected perchlorate dischargers, including former and current occupants of your property on Stonehurst, have been identified.

Requirement for an Investigation

The Regional Board has directed staff to issue individual letters under California Water Code Section 13267 to suspected perchlorate dischargers in the Rialto and Colton Groundwater Subbasins. Several letters similar to this one have already been issued over the last several months to other suspected dischargers and to the owners of affected properties. The Board also expressed a strong desire that suspected perchlorate dischargers work with the local water purveyors to provide a supply of replacement water during the loss or limited use of their production wells.

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The Need for the Investigation

The Santa Ana Regional Water Quality Control Board is charged with the protection of water quality in this Region. We have been working actively with the water purveyors for several years to identify the extent and address the impact of perchlorate contamination on water resources in the Rialto, Colton and Chino Groundwater Subbasins. The water purveyors whose wells have been contaminated with perchlorate now face a state of emergency, and may not be able to provide an adequate water supply to their customers. It is urgent that the sources of the contamination be identified, and the magnitude of the perchlorate plume defined.

Evidence Supporting the Need for the Investigation

Enclosed are the following documents:

- 1. Well Location Map, showing perchlorate contamination in municipal water supply wells in the vicinity of Rialto, Colton and Fontana, California.
- 2. Amex Products List including emergency signal flare kits, underwater illumination flares, mortar system, and chaff dispersing rocket heads.
- 3. Amex Facilities Description of Buildings, machinery, and equipment.
- 4. Union Bank Escrow Instructions and Assessor's Map for the sale of Parcel NW 1/3 Section 28, Township 1 North, Range 5 West, located adjacent to West Stonehurst Drive, Rialto to Robert Kennard from Whittaker Corporation dated April 24, 1974.
- Contemporary Trade Formula Chart identifying certain Amex products and their likely percentage of perchlorate.
- 6. City of Santa Clarita Whittaker-Bermite Property Clean-Up Information Sheet and article from Todd Engineers: Whittaker Perchlorate Contamination in Santa Clarita Valley.
- 7. California Department of Toxic Substances Control-Profile Report of Whittaker-Bermite Facility in Saugus, CA.
- 8. U.S. EPA Federal Register Notice of Deletion of Whittaker Corporation Superfund Site in Minnesota from Federal Registry.

Th evidence indicates that Amex (subsidiary of Whittaker) manufactured, stored, handled, tested, and burned flares, underwater flares, and ordnance, likely containing perchlorate salts, at the property located at 2298 West Stonehurst, Rialto, California. As a previous owner/occupant of the property, you bear legal liability under California law for discharges that have adversely affected water quality. This evidence supports the requirement for an investigation as defined in Section 13267(b)(1) of the California Water Code.

Deadlines

- A work plan for a soil and groundwater investigation for perchlorate in the vicinity of the former Whittaker property at 2298 West Stonehurst, Rialto must be submitted to Board staff no later than December 16, 2003. The work plan must include a detailed time schedule for the tasks to be conducted. The work plan and time schedule will be subject to my approval.
- 2. The investigation must commence within 30 days of my approval of the work plan.
- 3. All analytical results, groundwater measurements, and field information are to be submitted by fax to Board staff within 24 hours of being generated, throughout all stages of work, and during all phases of the investigation. The office fax number to be used for your data transmittals is (909) 781-6288.
- 4. The final report for the soil and groundwater investigation, including (at a minimum) the borehole logs, well construction details, groundwater elevation data, and soil and groundwater analytical results, must be submitted to Board staff within 30 days of completing the field work.

Failure to submit the required information by the specified deadline may subject you to administrative civil liability in the amount of up to \$1,000 per day, pursuant to Section 13268(a) and (b) of the California Water Code.

Finally, please be aware that the Board has directed staff to explore alternative ways of solving the water supply problem in the Rialto, Colton and Chino Groundwater Subbasins. In addition, consistent with the Board's direction, we have issued and will continue to issue similar directives to a number of other suspected dischargers who have operated in the North Rialto area. Thus, there may be opportunities to cooperate with other entities to implement joint investigations or to propose solutions that would address the water supply problem. In fact, we believe it would be both scientifically effective and economically efficient for the suspected dischargers subject to these directives to jointly pursue the investigation and to explore water supply replacement options. Further, consistent with the Board's direction, we recommend that the joint efforts of the suspected dischargers consider both the characterization of the plume and

California Environmental Protection Agency

initiation of water supply replacement or treatment strategies. Board staff has experience managing similar joint investigations and cooperative solutions and we are available to discuss these further with you. If you are interested in discussing alternative options for complying with this directive, please contact us to arrange a meeting or teleconference.

Recovery of Regional Board Expenses

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California Water Code Section 13365 addresses the billing process for the Regional Board to recover reasonable expenses for overseeing investigation of illegal discharges, contaminated properties, and other unregulated releases that may adversely affect the State's waters. It is the Regional Board's intent to recover such costs for regulatory oversight work conducted in accordance with this order. A description of the Board's procedure for cost recovery for regulatory oversight of investigations and cleanups will be sent to you under separate cover.

If you have any questions about this letter, or if you would like to arrange a meeting or teleconference, please contact Kamron Saremi, Project Engineer, at (909) 782-4303, or you may call Ann Sturdivant, Chief of our Spills, Leaks, Investigations and Cleanups Section, at (909) 782-4904.

Sincerely,

Gerard J. Thibeault Executive Officer

cc w/out enclosures:

Regional Board members
Jorge Leon, Office of Chief Counsel, SWRCB
Inland Empire Perchlorate Regulatory Task Force (see mailing list)

Enclosures:

- 1. Well Location Map, showing perchlorate contamination in municipal water supply wells in the vicinity of Rialto, Colton and Fontana, California.
- 2. Amex Products List including emergency signal flare kits, underwater illumination flares, mortar system, and chaff dispersing rocket heads.

3. Amex Facilities - Description of Buildings, machinery, and equipment.

 Union Bank Escrow Instructions and Assessor's Map for the sale of Parcel NW 1/3 Section 28, Township 1 North, Range 5 West, located adjacent to West Stonehurst Drive, Rialto to Robert Kennard from Whittaker Corporation, dated April 24, 1974.

5. Contemporary Trade Formula Chart identifying certain Amex products and their likely percentage of perchlorate.

6. City of Santa Clarita - Whittaker-Bermite Property Clean-Up Information Sheet and article from Todd Engineers: Whittaker Perchlorate Contamination in Santa Clarita Valley.

7. California Department of Toxic Substances Control-Profile Report of Whittaker-Bermite Facility in Saugus, CA.

8. U.S. EPA Federal Register Notice of Deletion of Whittaker Corporation Superfund Site in Minnesota from Federal Registry.

9. Mailing List.

DON/Data/SLIC/Rialto perchlorate/13267/Whittaker2